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=> s anti-freeze protein

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=> s l1 and (serine or threonine or asparagine)

L2	10	FILE DGENE
L3	0	FILE FROSTI
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L24	0	FILE AGRICOLA
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L26	0	FILE CABA
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L34 25 L1 AND (SERINE OR THREONINE OR ASPARAGINE)

=> d l34 1-25 ibib abs

L34 ANSWER 1 OF 25 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAY22472 Protein DGENE

TITLE: New plant **anti-freeze protein**
useful in frozen food products
INVENTOR: Jarman C D; Sidebottom C M; Twigg S; Worrall D
PATENT ASSIGNEE: (UNIL)UNILEVER NV.
(UNIL) UNILEVER PLC.
PATENT INFO: WO 9937782 A2 19990729 39p
APPLICATION INFO: WO 1998-EP8553 19981223
PRIORITY INFO: GB 1998-1408 19980122
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 1999-458697 [38]
AN AAY22472 Protein DGENE

AB This sequence is the plant **anti-freeze protein** of the invention. The **anti-freeze protein** is characterised in that at least 40% of its amino acids are from the group of **serine, threonine** and **asparagine**. The **anti-freeze protein** can be used in frozen food products, especially frozen confectionery. **Anti-freeze proteins** are especially used in food products, which are heated, e.g. by pasteurisation, blanching or sterilisation prior to freezing. Plants transformed with a nucleic acid sequence encoding the **anti-freeze protein** have an increased frost tolerance. Prior art **anti-freeze proteins** have not been applied to commercially available food products, due to high costs and complicated processes for obtaining the protein. Also prior art **anti-freeze proteins** have tended to destabilise during processing especially during the pasteurisation step. This is overcome by the present **anti-freeze protein**. The **anti-freeze proteins** provide an ice particle size following an ice recrystallisation inhibition assay of 15 μ M or less. The **anti-freeze protein** ingredient means that mixes can be frozen under quiescent conditions, e.g. in a shop or home freezer without the formation of unacceptable ice crystal shapes and hence with a texture different to products normally obtained via quiescent freezing.

L34 ANSWER 2 OF 25 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAY22474 Protein DGENE
TITLE: New plant **anti-freeze protein**
useful in frozen food products
INVENTOR: Jarman C D; Sidebottom C M; Twigg S; Worrall D
PATENT ASSIGNEE: (UNIL)UNILEVER NV.
(UNIL) UNILEVER PLC.
PATENT INFO: WO 9937782 A2 19990729 39p
APPLICATION INFO: WO 1998-EP8553 19981223
PRIORITY INFO: GB 1998-1408 19980122
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 1999-458697 [38]
AN AAY22474 Protein DGENE

AB This sequence is a fragment of the plant **anti-freeze protein** of the invention. The protein is characterised in that at least 40% of its amino acids are from the group of **serine, threonine** and **asparagine**. The **anti-freeze protein** can be used in frozen food products, especially frozen confectionery. **Anti-freeze proteins** are especially used in food products, which are heated, e.g. by pasteurisation, blanching or sterilisation prior to freezing. Plants transformed with a nucleic acid sequence encoding the **anti-freeze protein** have an increased frost tolerance. Prior art **anti-freeze proteins** have not been applied to commercially available food products, due to high costs and complicated processes for obtaining the protein. Also prior art **anti-freeze proteins** have tended to destabilise during processing especially during the pasteurisation step.

This is overcome by the present **anti-freeze protein**. The **anti-freeze proteins** provide an ice particle size following an ice recrystallisation inhibition assay of 15 μ M or less. The **anti-freeze protein** ingredient means that mixes can be frozen under quiescent conditions, e.g. in a shop or home freezer without the formation of unacceptable ice crystal shapes and hence with a texture different to products normally obtained via quiescent freezing.

L34 ANSWER 3 OF 25 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAY22473 Protein DGENE

TITLE: New plant **anti-freeze protein**
useful in frozen food products

INVENTOR: Jarman C D; Sidebottom C M; Twigg S; Worrall D

PATENT ASSIGNEE: (UNIL) UNILEVER NV.

(UNIL) UNILEVER PLC.

PATENT INFO: WO 9937782 A2 19990729

39p

APPLICATION INFO: WO 1998-EP8553 19981223

PRIORITY INFO: GB 1998-1408 19980122

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 1999-458697 [38]

AN AAY22473 Protein DGENE

AB This sequence is a fragment of the plant **anti-freeze protein** of the invention. The protein is characterised in that at least 40% of its amino acids are from the group of **serine**, **threonine** and **asparagine**. The **anti-freeze protein** can be used in frozen food products, especially frozen confectionery. **Anti-freeze proteins** are especially used in food products, which are heated, e.g. by pasteurisation, blanching or sterilisation prior to freezing. Plants transformed with a nucleic acid sequence encoding the **anti-freeze protein** have an increased frost tolerance. Prior art **anti-freeze proteins** have not been applied to commercially available food products, due to high costs and complicated processes for obtaining the protein. Also prior art **anti-freeze proteins** have tended to destabilise during processing especially during the pasteurisation step. This is overcome by the present **anti-freeze protein**. The **anti-freeze proteins** provide an ice particle size following an ice recrystallisation inhibition assay of 15 μ M or less. The **anti-freeze protein** ingredient means that mixes can be frozen under quiescent conditions, e.g. in a shop or home freezer without the formation of unacceptable ice crystal shapes and hence with a texture different to products normally obtained via quiescent freezing.

L34 ANSWER 4 OF 25 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAX99717 DNA DGENE

TITLE: New plant **anti-freeze protein**
useful in frozen food products

INVENTOR: Jarman C D; Sidebottom C M; Twigg S; Worrall D

PATENT ASSIGNEE: (UNIL) UNILEVER NV.

(UNIL) UNILEVER PLC.

PATENT INFO: WO 9937782 A2 19990729

39p

APPLICATION INFO: WO 1998-EP8553 19981223

PRIORITY INFO: GB 1998-1408 19980122

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 1999-458697 [38]

AN AAX99717 DNA DGENE

AB This sequence encodes the plant **anti-freeze protein** of the invention. The **anti-freeze protein** is characterised in that at least 40% of its amino acids are from the group of **serine**, **threonine** and **asparagine**. The **anti-freeze protein**

can be used in frozen food products, especially frozen confectionery. **Anti-freeze proteins** are especially used in food products, which are heated, e.g. by pasteurisation, blanching or sterilisation prior to freezing. Plants transformed with a nucleic acid sequence encoding the **anti-freeze protein** have an increased frost tolerance. Prior art **anti-freeze proteins** have not been applied to commercially available food products, due to high costs and complicated processes for obtaining the protein. Also prior art **anti-freeze proteins** have tended to destabilise during processing especially during the pasteurisation step. This is overcome by the present **anti-freeze protein**. The **anti-freeze proteins** provide an ice particle size following an ice recrystallisation inhibition assay of 15 μ M or less. The **anti-freeze protein** ingredient means that mixes can be frozen under quiescent conditions, e.g. in a shop or home freezer without the formation of unacceptable ice crystal shapes and hence with a texture different to products normally obtained via quiescent freezing.

L34 ANSWER 5 OF 25 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAX99723 DNA DGENE

TITLE: New plant **anti-freeze protein**
useful in frozen food products

INVENTOR: Jarman C D; Sidebottom C M; Twigg S; Worrall D

PATENT ASSIGNEE: (UNIL) UNILEVER NV.

(UNIL) UNILEVER PLC.

PATENT INFO: WO 9937782 A2 19990729 39p

APPLICATION INFO: WO 1998-EP8553 19981223

PRIORITY INFO: GB 1998-1408 19980122

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 1999-458697 [38]

AN AAX99723 DNA DGENE

AB This sequence represents a PCR primer for DNA encoding the plant **anti-freeze protein** of the invention. The **anti-freeze protein** is characterised in that at least 40% of its amino acids are from the group consisting of **serine, threonine and asparagine**. The **anti-freeze protein** can be used in frozen food products, especially frozen confectionery. **Anti-freeze proteins** are especially used in food products, which are heated, e.g. by pasteurisation, blanching or sterilisation prior to freezing. Plants transformed with a nucleic acid sequence encoding the **anti-freeze protein** have an increased frost tolerance. Prior art **anti-freeze proteins** have not been applied to commercially available food products, due to high costs and complicated processes for obtaining the protein. Also prior art **anti-freeze proteins** have tended to destabilise during processing especially during the pasteurisation step. This is overcome by the present **anti-freeze protein**. The **anti-freeze proteins** provide an ice particle size following an ice recrystallisation inhibition assay of 15 μ M or less. The **anti-freeze protein** ingredient means that mixes can be frozen under quiescent conditions, e.g. in a shop or home freezer without the formation of unacceptable ice crystal shapes and hence with a texture different to products normally obtained via quiescent freezing.

L34 ANSWER 6 OF 25 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAX99722 DNA DGENE

TITLE: New plant **anti-freeze protein**
useful in frozen food products

INVENTOR: Jarman C D; Sidebottom C M; Twigg S; Worrall D

PATENT ASSIGNEE: (UNIL) UNILEVER NV.

(UNIL) UNILEVER PLC.

PATENT INFO: WO 9937782 A2 19990729 39p
APPLICATION INFO: WO 1998-EP8553 19981223
PRIORITY INFO: GB 1998-1408 19980122
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 1999-458697 [38]

AN AAX99722 DNA DGENE

AB This sequence represents a PCR primer for DNA encoding the plant **anti-freeze protein** of the invention. The **anti-freeze protein** is characterised in that at least 40% of its amino acids are from the group consisting of **serine, threonine and asparagine**. The **anti-freeze protein** can be used in frozen food products, especially frozen confectionery. **Anti-freeze proteins** are especially used in food products, which are heated, e.g. by pasteurisation, blanching or sterilisation prior to freezing. Plants transformed with a nucleic acid sequence encoding the **anti-freeze protein** have an increased frost tolerance. Prior art **anti-freeze proteins** have not been applied to commercially available food products, due to high costs and complicated processes for obtaining the protein. Also prior art **anti-freeze proteins** have tended to destabilise during processing especially during the pasteurisation step. This is overcome by the present **anti-freeze protein**. The **anti-freeze proteins** provide an ice particle size following an ice recrystallisation inhibition assay of 15 μ M or less. The **anti-freeze protein** ingredient means that mixes can be frozen under quiescent conditions, e.g. in a shop or home freezer without the formation of unacceptable ice crystal shapes and hence with a texture different to products normally obtained via quiescent freezing.

L34 ANSWER 7 OF 25 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAX99721 DNA DGENE

TITLE: New plant **anti-freeze protein**
useful in frozen food products

INVENTOR: Jarman C D; Sidebottom C M; Twigg S; Worrall D

PATENT ASSIGNEE: (UNIL) UNILEVER NV.
(UNIL) UNILEVER PLC.

PATENT INFO: WO 9937782 A2 19990729 39p

APPLICATION INFO: WO 1998-EP8553 19981223

PRIORITY INFO: GB 1998-1408 19980122

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 1999-458697 [38]

AN AAX99721 DNA DGENE

AB This sequence represents a PCR primer for DNA encoding the plant **anti-freeze protein** of the invention. The **anti-freeze protein** is characterised in that at least 40% of its amino acids are from the group consisting of **serine, threonine and asparagine**. The **anti-freeze protein** can be used in frozen food products, especially frozen confectionery. **Anti-freeze proteins** are especially used in food products, which are heated, e.g. by pasteurisation, blanching or sterilisation prior to freezing. Plants transformed with a nucleic acid sequence encoding the **anti-freeze protein** have an increased frost tolerance. Prior art **anti-freeze proteins** have not been applied to commercially available food products, due to high costs and complicated processes for obtaining the protein. Also prior art **anti-freeze proteins** have tended to destabilise during processing especially during the pasteurisation step. This is overcome by the present **anti-freeze protein**. The **anti-freeze proteins** provide an ice particle size following an ice recrystallisation inhibition assay of 15 μ M or less. The **anti**

-**freeze protein** ingredient means that mixes can be frozen under quiescent conditions, e.g. in a shop or home freezer without the formation of unacceptable ice crystal shapes and hence with a texture different to products normally obtained via quiescent freezing.

L34 ANSWER 8 OF 25 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAX99720 DNA DGENE

TITLE: New plant **anti-freeze protein**
useful in frozen food products

INVENTOR: Jarman C D; Sidebottom C M; Twigg S; Worrall D

PATENT ASSIGNEE: (UNIL) UNILEVER NV.

(UNIL) UNILEVER PLC.

PATENT INFO: WO 9937782 A2 19990729

39p

APPLICATION INFO: WO 1998-EP8553 19981223

PRIORITY INFO: GB 1998-1408 19980122

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 1999-458697 [38]

AN AAX99720 DNA DGENE

AB This sequence represents a PCR primer for DNA encoding the plant **anti-freeze protein** of the invention. The **anti-freeze protein** is characterised in that at least 40% of its amino acids are from the group consisting of **serine, threonine and asparagine**. The **anti-freeze protein** can be used in frozen food products, especially frozen confectionery. **Anti-freeze proteins** are especially used in food products, which are heated, e.g. by pasteurisation, blanching or sterilisation prior to freezing. Plants transformed with a nucleic acid sequence encoding the **anti-freeze protein** have an increased frost tolerance. Prior art **anti-freeze proteins** have not been applied to commercially available food products, due to high costs and complicated processes for obtaining the protein. Also prior art **anti-freeze proteins** have tended to destabilise during processing especially during the pasteurisation step. This is overcome by the present **anti-freeze protein**. The **anti-freeze proteins** provide an ice particle size following an ice recrystallisation inhibition assay of 15 μ M or less. The **anti-freeze protein** ingredient means that mixes can be frozen under quiescent conditions, e.g. in a shop or home freezer without the formation of unacceptable ice crystal shapes and hence with a texture different to products normally obtained via quiescent freezing.

L34 ANSWER 9 OF 25 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAX99719 DNA DGENE

TITLE: New plant **anti-freeze protein**
useful in frozen food products

INVENTOR: Jarman C D; Sidebottom C M; Twigg S; Worrall D

PATENT ASSIGNEE: (UNIL) UNILEVER NV.

(UNIL) UNILEVER PLC.

PATENT INFO: WO 9937782 A2 19990729

39p

APPLICATION INFO: WO 1998-EP8553 19981223

PRIORITY INFO: GB 1998-1408 19980122

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 1999-458697 [38]

AN AAX99719 DNA DGENE

AB This sequence represents a PCR primer for DNA encoding the plant **anti-freeze protein** of the invention. The **anti-freeze protein** is characterised in that at least 40% of its amino acids are from the group consisting of **serine, threonine and asparagine**. The **anti-freeze protein** can be used in frozen food products, especially frozen confectionery. **Anti-freeze proteins** are especially used in food products,

which are heated, e.g. by pasteurisation, blanching or sterilisation prior to freezing. Plants transformed with a nucleic acid sequence encoding the **anti-freeze protein** have an increased frost tolerance. Prior art **anti-freeze proteins** have not been applied to commercially available food products, due to high costs and complicated processes for obtaining the protein. Also prior art **anti-freeze proteins** have tended to destabilise during processing especially during the pasteurisation step. This is overcome by the present **anti-freeze protein**. The **anti-freeze proteins** provide an ice particle size following an ice recrystallisation inhibition assay of 15 μ M or less. The **anti-freeze protein** ingredient means that mixes can be frozen under quiescent conditions, e.g. in a shop or home freezer without the formation of unacceptable ice crystal shapes and hence with a texture different to products normally obtained via quiescent freezing.

L34 ANSWER 10 OF 25 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAX99718 DNA DGENE

TITLE: New plant **anti-freeze protein**
useful in frozen food products

INVENTOR: Jarman C D; Sidebottom C M; Twigg S; Worrall D

PATENT ASSIGNEE: (UNIL) UNILEVER NV.
(UNIL) UNILEVER PLC.

PATENT INFO: WO 9937782 A2 19990729

39p

APPLICATION INFO: WO 1998-EP8553 19981223

PRIORITY INFO: GB 1998-1408 19980122

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 1999-458697 [38]

AN AAX99718 DNA DGENE

AB This sequence represents a PCR primer for DNA encoding the plant **anti-freeze protein** of the invention. The **anti-freeze protein** is characterised in that at least 40% of its amino acids are from the group consisting of **serine, threonine and asparagine**. The **anti-freeze protein** can be used in frozen food products, especially frozen confectionery. **Anti-freeze proteins** are especially used in food products, which are heated, e.g. by pasteurisation, blanching or sterilisation prior to freezing. Plants transformed with a nucleic acid sequence encoding the **anti-freeze protein** have an increased frost tolerance. Prior art **anti-freeze proteins** have not been applied to commercially available food products, due to high costs and complicated processes for obtaining the protein. Also prior art **anti-freeze proteins** have tended to destabilise during processing especially during the pasteurisation step. This is overcome by the present **anti-freeze protein**. The **anti-freeze proteins** provide an ice particle size following an ice recrystallisation inhibition assay of 15 μ M or less. The **anti-freeze protein** ingredient means that mixes can be frozen under quiescent conditions, e.g. in a shop or home freezer without the formation of unacceptable ice crystal shapes and hence with a texture different to products normally obtained via quiescent freezing.

L34 ANSWER 11 OF 25 USPATFULL

ACCESSION NUMBER: 2002:141126 USPATFULL

TITLE: Processes and organisms for the production of **anti-freeze proteins**

INVENTOR(S): Berry, Mark John, Bedford, UNITED KINGDOM
Griffiths, Allen, Bedford, UNITED KINGDOM
Hill, Philip John, Nottingham, UNITED KINGDOM
Laybourne-Parry, Johanna, East Leake, UNITED KINGDOM
Mills, Sarah Victoria, Glasgow, UNITED KINGDOM

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002072108	A1	20020613
APPLICATION INFO.:	US 2000-737297	A1	20001215 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1999-29696	19991215
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	UNILEVER, PATENT DEPARTMENT, 45 RIVER ROAD, EDGEWATER, NJ, 07020	
NUMBER OF CLAIMS:	10	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	13 Drawing Page(s)	
LINE COUNT:	1084	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a process for preparing a novel anti-freezepeptide and to the peptides obtained from bacteria from an aqueous low-temperature environment, such as *Marinomonas protea* and a novel *Pseudomonas* species. These anti-freeze peptides can suitably be incorporated in frozen food products such as frozen vegetables and frozen confectionery such as ice-cream.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 12 OF 25 USPATFULL

ACCESSION NUMBER: 2002:133508 USPATFULL
 TITLE: Cyclohexanediol cryoprotectant compounds
 INVENTOR(S): Brockbank, Kelvin G.M., Charleston, SC, UNITED STATES
 Taylor, Michael J., Mount Pleasant, SC, UNITED STATES
 Campbell, Lia Hanson, Mount Pleasant, SC, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002068360	A1	20020606
APPLICATION INFO.:	US 2001-835818	A1	20010417 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-197669P	20000417 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	OLIFF & BERRIDGE, PLC, P.O. BOX 19928, ALEXANDRIA, VA, 22320	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	451	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of cryopreserving cells includes bringing the cells into contact with a cryopreservation composition containing at least one cyclohexanediol compound, and subsequently reducing the temperature of the cells to a cryopreservation temperature. The at least one cyclohexanediol compound is preferably the cis or trans forms of 1,3-cyclohexanediol or 1,4-cyclohexanediol, and racemic mixtures thereof. A preferred cryopreservation composition includes the at least one cyclohexanediol compound and at least one additional cryoprotectant compound.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 13 OF 25 USPATFULL

ACCESSION NUMBER: 2002:22066 USPATFULL
 TITLE: Novel warming method of cryopreserved specimens
 INVENTOR(S): Campbell, Lia Hanson, Mount Pleasant, SC, UNITED STATES

Brockbank, Kelvin G.M., Charleston, SC, UNITED STATES
Taylor, Michael J., Mount Pleasant, SC, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002012901	A1	20020131
APPLICATION INFO.:	US 2001-835819	A1	20010417 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-197670P	20000417 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	OLIFF & BERRIDGE, PLC, P.O. BOX 19928, ALEXANDRIA, VA, 22320	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	563	

AB A two stage method of thawing cells from a cryopreserved state includes first warming the cells from a cryopreservation temperature to a transition temperature of at least -30.degree. C. in a first, slow-warming stage by exposing the cells to an atmosphere having a temperature of less than 30.degree. C., and once the cells have obtained the transition temperature, subsequently further warming the cells from the transition temperature by exposing the cells to a temperature of at least 32.degree. C. in a second, rapid-warming stage. After the cells obtain the transition temperature in the first stage, the cells may be equilibrated at the transition temperature for a period of time prior to conducting the second stage warming. The method is particularly useful in warming cryopreserved cells attached to a fixed substrate. A thermal conduction device in association with the cryopreserved cells may also be used to further assist in the warming procedure.

L34 ANSWER 14 OF 25 USPATFULL

ACCESSION NUMBER: 2000:9565 USPATFULL
TITLE: Method of making frozen compositions
INVENTOR(S): Clemmings, John F., Parsippany, NJ, United States
Zoerb, Hans F., River Falls, WI, United States
Rosenwald, Diane R., Shoreview, MN, United States
Huang, Victor T., Moundsview, MN, United States
PATENT ASSIGNEE(S): The Pillsbury Company, Minneapolis, MI, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6017574		20000125
APPLICATION INFO.:	US 1997-783152		19970114 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-472500, filed on 7 Jun 1995, now patented, Pat. No. US 5620732		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tran, Lien		
LEGAL REPRESENTATIVE:	Kalis, Janal M., Rahman, Aleya		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	298		

AB A method for making a frozen composition for storage. The method does not require a hardening step prior to storage. The method includes preparing a mixture of ingredients that include water and adding an **anti-freeze protein** to the mixture of ingredients.

L34 ANSWER 15 OF 25 USPATFULL

ACCESSION NUMBER: 1999:85228 USPATFULL
TITLE: Assay for an antifreeze protein
INVENTOR(S): Lusk, Lance, Milwaukee, WI, United States
Cronan, Charles L., Shorewood, WI, United States
PATENT ASSIGNEE(S): Miller Brewing Company, Milwaukee, WI, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5928877		19990727
APPLICATION INFO.:	US 1997-975166		19971120 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-180524, filed on 12 Jan 1994, now abandoned which is a continuation of Ser. No. US 1992-917216, filed on 20 Jul 1992, now abandoned which is a continuation-in-part of Ser. No. US 1990-486333, filed on 28 Feb 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-409217, filed on 19 Sep 1989, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Guzo, David		
LEGAL REPRESENTATIVE:	Quarles & Brady		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	11 Drawing Figure(s); 11 Drawing Page(s)		
LINE COUNT:	1122		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Yeast is genetically engineered by transformation with an expression vector containing a natural yeast secretion signal sequence combined appropriately with a chemically synthesized gene encoding antifreeze protein resulting in the expression, proper processing, and secretion of antifreeze protein which is heterologous to yeast in recoverable amounts. Disclosed are DNA sequences comprising structural genes encoding peptides having amino acid sequences with the biochemical or physiochemical properties of antifreeze protein and a method of combining the antifreeze protein gene sequences with appropriate expression vectors.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 16 OF 25 USPATFULL

ACCESSION NUMBER: 1998:157149 USPATFULL
TITLE: Method of expressing antifreeze proteins in yeast
INVENTOR(S): Tripp, Matthew, Nashotah, WI, United States
Lusk, Lance, Milwaukee, WI, United States
Rhodes, Thomas, Cedarburg, WI, United States
Huige, Nick, Brookfield, WI, United States
Kot, Edward, Delafield, WI, United States
Chicoye, Etzer, Wauwatosa, WI, United States
Barney, Michael C., Wauwatosa, WI, United States
Bower, Patricia A., Milwaukee, WI, United States
Cronan, Charles L., Shorewood, WI, United States
PATENT ASSIGNEE(S): Miller Brewing Company, Milwaukee, WI, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5849537		19981215
APPLICATION INFO.:	US 1994-180524		19940112 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1992-917216, filed on 20 Jul 1992, now abandoned which is a continuation-in-part of Ser. No. US 1990-486333, filed on 28 Feb 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-409217, filed on 19 Sep 1989, now abandoned		
DOCUMENT TYPE:	Utility		

FILE SEGMENT: Granted
PRIMARY EXAMINER: Guzo, David
LEGAL REPRESENTATIVE: Quarles & Brady
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 11 Drawing Figure(s); 11 Drawing Page(s)
LINE COUNT: 1153

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Yeast is genetically engineered by transformation with an expression vector containing a natural yeast secretion signal sequence combined appropriately with a chemically synthesized gene encoding antifreeze protein resulting in the expression, proper processing, and secretion of antifreeze protein which is heterologous to yeast in recoverable amounts. Disclosed are DNA sequences comprising structural genes encoding peptides having amino acid sequences with the biochemical or physiochemical properties of antifreeze protein and a method of combining the antifreeze protein gene sequences with appropriate expression vectors.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 17 OF 25 USPATFULL

ACCESSION NUMBER: 97:45207 USPATFULL
TITLE: Transgenic plants having a nucleic acid sequence encoding a dendroides antifreeze protein
INVENTOR(S): Duman, John G., South Bend, IN, United States
PATENT ASSIGNEE(S): University of Notre Dame du Lac, Notre Dame, IN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5633451		19970527
APPLICATION INFO.:	US 1995-569594		19951208 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-485359, filed on 7 Jun 1995		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fox, David T.		
ASSISTANT EXAMINER:	Haas, Thomas		
LEGAL REPRESENTATIVE:	Barnes & Thornburg		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	966		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to transgenic plants having nucleic acid sequences encoding Dendroides canadensis thermal hysteresis proteins. The THPs of Dendroides have significantly greater thermal hysteresis activity than any other known **anti-freeze protein**. The thermal hysteresis activity of the purified THPs can be further enhanced by combining the THPs with various "activating" compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 18 OF 25 USPATFULL

ACCESSION NUMBER: 97:38394 USPATFULL
TITLE: Nucleic acid sequences encoding dendroides antifreeze proteins
INVENTOR(S): Duman, John G., South Bend, IN, United States
PATENT ASSIGNEE(S): University of Notre Dame du Lac, Notre Dame, IN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5627051		19970506

APPLICATION INFO.: US 1995-485359 19950607 (8)
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Jacobson, Dian C.
ASSISTANT EXAMINER: Lau, Kawai
LEGAL REPRESENTATIVE: Barnes & Thornburg
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 959

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to nucleic acid sequences encoding Dendroides canadensis thermal hysteresis proteins. The THPs of Dendroides have significantly greater thermal hysteresis activity than any other known **anti-freeze protein**. The thermal hysteresis activity of the purified THPs can be further enhanced by combining the THPs with various "activating" compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 19 OF 25 USPATFULL

ACCESSION NUMBER: 97:31454 USPATFULL
TITLE: Method of making ice cream
INVENTOR(S): Clemmings, John F., Parsippany, NJ, United States
Zoerb, Hans F., River Falls, WI, United States
Rosenwald, Diane R., Shoreview, MN, United States
Huang, Victor T., Moundsview, MN, United States
PATENT ASSIGNEE(S): The Pillsbury Company, Minneapolis, MN, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5620732		19970415
APPLICATION INFO.:	US 1995-472500		19950607 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kepplinger, Esther		
ASSISTANT EXAMINER:	Tran, Lien		
LEGAL REPRESENTATIVE:	Kalis, Janal M., Rahman, Aleya		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	295		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for making ice cream for storage. The method does not require a hardening step prior to storage. The method includes preparing a mixture of ingredients that include water and adding an **anti-freeze protein** to the mixture of ingredients.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 20 OF 25 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1988:439279 BIOSIS
DOCUMENT NUMBER: BA86:91377
TITLE: MULTIPLE GENES PROVIDE THE BASIS FOR ANTIFREEZE PROTEIN DIVERSITY AND DOSAGE IN THE OCEAN POUT MACROZOARCES-AMERICANUS.
AUTHOR(S): HEW C L; WANG N-C; JOSHI S; FLETCHER G L; SCOTT G K; HAYES P H; BUETTNER B; DAVIES P L
CORPORATE SOURCE: DEP. BIOCHEM., QUEEN'S UNIV., KINGSTON, ONT. K7L 3N6, CAN.
SOURCE: J BIOL CHEM, (1988) 263 (24), 12049-12055.
CODEN: JBCHA3. ISSN: 0021-9258.
FILE SEGMENT: BA; OLD
LANGUAGE: English

AB The ocean pout (Macrozoarces americanus) produces a set of antifreeze proteins that depresses the freezing point of its blood by binding to, and

inhibiting the growth of, ice crystals. The amino acid sequences of all the major components of the ocean pout antifreeze proteins, including the immunologically distinct QAE component, have been derived by Edman degradation. In addition, sequences of several minor components were deduced from DNA sequencing of cDNA and genomic clones. Fifty percent of the amino acids are perfectly conserved in all these proteins as well as in two homologous sequences from the distantly related wolffish. Several of the conserved residues are **threonines** and **asparagines**, amino acids that have been implicated in ice binding in the structurally unrelated antifreeze protein of the righteye flounders. Aside from minor differences in post-translational modifications, heterogeneity in antifreeze protein components stems from amino acid differences encoded by multiple genes. Based on genomic Southern blots and library cloning statistics there are 150 copies of the 0.7-kilobase-long antifreeze protein gene in the Newfoundland ocean pout, the majority of which are closely linked but irregularly spaced. A more southerly population of ocean pout from New Brunswick in which the circulating antifreeze protein levels are considerably lower has approximately one-quarter as many **anti-freeze protein** genes. Thus, there appears to be a correlation between gene dosage and antifreeze protein levels, and hence the ability to survive in ice-laden seawater. Southern blot comparison of the two populations indicates that the differences in gene dosage were not generated by a simple set of deletions/duplications. They are more likely to be the result of differential amplification.

L34 ANSWER 21 OF 25 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 ACCESSION NUMBER: 1980:147336 BIOSIS
 DOCUMENT NUMBER: BA69:22332
 TITLE: SEASONAL CHANGES IN PLASMA AMINO-ACID LEVELS IN THE WINTER FLOUNDER PSEUDOPLEURONECTES-AMERICANUS.
 AUTHOR(S): SQUIRES E J; HALL D E; FELTHAM L A W
 CORPORATE SOURCE: DEP. BIOCHEM., MEML. UNIV. NFOUNDL., ST. JOHN'S, NFOUNDL. A1B 3X9, CAN.
 SOURCE: CAN J ZOOL, (1979) 57 (7), 1438-1442.
 CODEN: CJZOAG. ISSN: 0008-4301.
 FILE SEGMENT: BA; OLD
 LANGUAGE: English

AB Amino acid analyses were performed on plasma samples taken monthly over a period of 2 yr from 305 mature winter flounder. All plasma amino acids showed wide seasonal variations. A very low basal level of the total plasma amino acids was found during the winter months from Dec.-June. In July, the total levels rose from 6-7 times the basal level and then stabilized during Aug.-Nov. at a level 3-4 times the basal level. Male and female flounder showed similar patterns of seasonal amino acid variations. Seasonal variations in plasma amino acids may be related to the feeding habits of the flounder. An increase in the plasma level of alanine and **threonine** during Nov. correlates with the initiation of antifreeze protein synthesis.

L34 ANSWER 22 OF 25 WPIDS (C) 2002 THOMSON DERWENT
 ACCESSION NUMBER: 1999-458697 [38] WPIDS
 DOC. NO. NON-CPI: N1999-343101
 DOC. NO. CPI: C1999-134718
 TITLE: New plant **anti-freeze protein** useful in frozen food products.
 DERWENT CLASS: B04 C06 D13 D16 P13
 INVENTOR(S): JARMAN, C D; SIDEBOTTOM, C M; TWIGG, S; WORRALL, D
 PATENT ASSIGNEE(S): (JARM-I) JARMAN C D; (UNIL) UNILEVER PLC; (UNIL) UNILEVER NV
 COUNTRY COUNT: 85
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
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WO 9937782	A2	19990729	(199938)*	EN	39
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RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL

OA PT SD SE SZ UG ZW
W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD
GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
UA UG US UZ VN YU ZW
AU 9924188 A 19990809 (200001)
BR 9814776 A 20001024 (200058)
EP 1049783 A2 20001108 (200062) EN
R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
CZ 2000002696 A3 20001213 (200103)
SK 2000001095 A3 20010212 (200112)
CN 1290300 A 20010404 (200140)
HU 2001001252 A2 20010828 (200157)
MX 2000007100 A1 20010301 (200170)
JP 2002504316 W 20020212 (200215) 39
AU 747087 B 20020509 (200238)

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9937782	A2	WO 1998-EP8553	19981223
AU 9924188	A	AU 1999-24188	19981223
BR 9814776	A	BR 1998-14776	19981223
		WO 1998-EP8553	19981223
EP 1049783	A2	EP 1998-966702	19981223
		WO 1998-EP8553	19981223
CZ 2000002696	A3	WO 1998-EP8553	19981223
		CZ 2000-2696	19981223
SK 2000001095	A3	WO 1998-EP8553	19981223
		SK 2000-1095	19981223
CN 1290300	A	CN 1998-813922	19981223
HU 2001001252	A2	WO 1998-EP8553	19981223
		HU 2001-1252	19981223
MX 2000007100	A1	MX 2000-7100	20000720
JP 2002504316	W	WO 1998-EP8553	19981223
		JP 2000-528689	19981223
AU 747087	B	AU 1999-24188	19981223

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 9924188	A Based on	WO 9937782
BR 9814776	A Based on	WO 9937782
EP 1049783	A2 Based on	WO 9937782
CZ 2000002696	A3 Based on	WO 9937782
HU 2001001252	A2 Based on	WO 9937782
JP 2002504316	W Based on	WO 9937782
AU 747087	B Previous Publ. Based on	AU 9924188 WO 9937782

PRIORITY APPLN. INFO: GB 1998-1408 19980122

AN 1999-458697 [38] WPIDS

AB WO 9937782 A UPAB: 19990922

NOVELTY - A plant **anti-freeze protein**

characterized in that at least 40% of its amino acids are from the group of **serine, threonine** and **asparagine**, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a nucleic acid sequence capable of encoding the **anti-freeze protein** as above;

(2) a frozen food product comprising the **anti-freeze protein**;

(3) a method of obtaining an **anti-freeze protein** as above, where the protein is produced by a genetically

modified organism; and

(4) a plant, capable of expressing the **anti-freeze protein** and having an increased frost tolerance.

ACTIVITY - None Given.

MECHANISM OF ACTION - None Given.

USE - The **anti-freeze protein** can be used in frozen food products, especially frozen confectionery (claimed). **Anti-freeze proteins** are especially used in food products, which are heated, e.g. by pasteurization, blanching or sterilization prior to freezing. Plants transformed with a nucleic acid sequence encoding the **anti-freeze protein** have an increased frost tolerance (claimed).

ADVANTAGE - Prior art **anti-freeze proteins** have not been applied to commercially available food products, due to high costs and complicated process for obtaining the protein. Also prior art **anti-freeze proteins** have tended to destabilize during processing especially during the pasteurization step. This is overcome by the present **anti-freeze protein**. The **anti-freeze proteins** provide an ice particle size following an ice recrystallization inhibition assay of 15 μ M or less. The **anti-freeze protein** ingredient means that mixes can be frozen under quiescent conditions, e.g. in a shop or home freezer without the formation of unacceptable ice crystal shapes and hence with a texture different to products normally obtained via quiescent freezing.

Dwg.0/0

L34 ANSWER 23 OF 25 IFIPAT COPYRIGHT 2002 IFI

AN 10124747 IFIPAT;IFIUDB;IFICDB
TITLE: CYCLOHEXANEDIOL CRYOPROTECTANT COMPOUNDS
INVENTOR(S): Brockbank; Kelvin G.M., Charleston, SC, US
Campbell; Lia Hanson, Mount Pleasant, SC, US
Taylor; Michael J., Mount Pleasant, SC, US
PATENT ASSIGNEE(S): Unassigned
AGENT: OLIFF & BERRIDGE, PLC, P.O. BOX 19928, ALEXANDRIA,
VA, 22320, US

	NUMBER	PK	DATE
PATENT INFORMATION:	US 2002068360	A1	20020606
APPLICATION INFORMATION:	US 2001-835818		20010417

	NUMBER	DATE
FAMILY INFORMATION:	US 2000-19766920000417	(Provisional)
DOCUMENT TYPE:	US 2002068360	20020606
FILE SEGMENT:	Utility	
	Patent Application - First Publication	
	CHEMICAL	
	APPLICATION	

GOVERNMENT INTEREST:

(0001) This invention was made with government support under grant number Cooperative Agreement Number 70NANB7H3071, awarded by the Department of Commerce. The government has certain rights in the invention.

NUMBER OF CLAIMS: 19 3 Figure(s).

DESCRIPTION OF FIGURES:

FIG. 1 is a flow chart summarizing the cryopreservation procedure utilized in obtaining the results summarized in this application.

FIGS. 2-3 are plots of relative cell viability after freezing using CHD compounds in conjunction with conventional cryoprotective agents.

FIGS. 4-5 are plots of relative cell viability after freezing using CHD compounds in conjunction with **anti-freeze proteins**

AB A method of cryopreserving cells includes bringing the cells into contact

with a cryopreservation composition containing at least one cyclohexanediol compound, and subsequently reducing the temperature of the cells to a cryopreservation temperature. The at least one cyclohexanediol compound is preferably the cis or trans forms of 1,3-cyclohexanediol or 1,4-cyclohexanediol, and racemic mixtures thereof. A preferred cryopreservation composition includes the at least one cyclohexanediol compound and at least one additional cryoprotectant compound.

CLMN 19 3 Figure(s).

FIG. 1 is a flow chart summarizing the cryopreservation procedure utilized in obtaining the results summarized in this application.

FIGS. 2-3 are plots of relative cell viability after freezing using CHD compounds in conjunction with conventional cryoprotective agents.

FIGS. 4-5 are plots of relative cell viability after freezing using CHD compounds in conjunction with **anti-freeze proteins**.

L34 ANSWER 24 OF 25 EUROPATFULL COPYRIGHT 2002 WILA

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 783254 EUROPATFULL EW 200135 FS PS
TITLE: METHOD OF MAKING FROZEN COMPOSITIONS.
HERSTELLUNGSVERFAHREN VON GEFRORENEN ZUSAMMENSETZUNGEN.
PROCEDE POUR REALISER DES COMPOSITIONS CONGELEES.
INVENTOR(S): CLEMMINGS, John, F., 30 Winding Way, Parsippany, NJ
07054, US;
ZOERB, Hans, F., 1072 River Drive, River Falls, WI
54022, US;
ROSENWALD, Diane, R., 5620 Dunlap Avenue N., Shoreview,
MN 55126, US;
HUANG, Victor, T., 7309 Parkview Drive, Moundsview, MN
55112, US
PATENT ASSIGNEE(S): THE PILLSBURY COMPANY, 200 South Sixth Street,
Minneapolis, MN 55402-1464, US
PATENT ASSIGNEE NO: 502061
AGENT: Gowshall, Jonathan Vallance, FORRESTER & BOEHMERT
Franz-Joseph-Strasse 38, 80801 Muenchen, DE
61531
AGENT NUMBER:
OTHER SOURCE: BEPB2001037 EP 0783254 B1 0010
SOURCE: Wila-EPS-2001-H35-T3
DOCUMENT TYPE: Patent
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R DE; R ES; R FR; R GB; R IT
PATENT INFO.PUB.TYPE: EPB1 EUROPAEISCHE PATENTSCHRIFT (Internationale
Anmeldung)

PATENT INFORMATION:

PATENT NO	KIND DATE
EP 783254	B1 20010829

'OFFENLEGUNGS' DATE:	19970716
APPLICATION INFO.:	EP 1996-914594 19960520
PRIORITY APPLN. INFO.:	US 1995-472500 19950607
RELATED DOC. INFO.:	WO 96-US6519 960520 INTAKZ
	WO 9639878 961219 INTPNR
REFERENCE PAT. INFO.:	WO 91-10361 A WO 92-12722 A
	US 4985270 A US 5082682 A
	US 5118792 A US 5358931 A
REF. NON-PATENT-LIT.:	PATENT ABSTRACTS OF JAPAN vol. 94, no. 0012, 11 June 1993 &
	JP-A-06345664 (TAKAKO TOMITA), 20 December 1994,

L34 ANSWER 25 OF 25 PCTFULL COPYRIGHT 2002 Univentio
ACCESSION NUMBER: 2002032225 PCTFULL ED 20020515 EW 200217
TITLE (ENGLISH): METHOD OF CRYOPRESERVATION OF TISSUES OR ORGANS OTHER
THAN A BLOOD VESSEL BY VITRIFICATION

TITLE (FRENCH): PROCEDE DE CONSERVATION PAR LE FROID DE TISSUS OU
 D'ORGANES AUTRES QUE DES VAISSEAUX SANGUINS, PAR
 VITRIFICATION
 INVENTOR(S): KHIRABADI, Bijan, S.; SONG, Ying, C.; BROCKBANK,
 Kelvin, G., M.
 PATENT ASSIGNEE(S): ORGAN RECOVERY SYSTEMS
 AGENT: OLIFF, James, A.
 LANGUAGE OF PUBL.: English
 LANGUAGE OF FILING: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

	NUMBER	KIND	DATE
	WO 2002032225	A2	20020425
DESIGNATED STATES	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG		
APPLICATION INFO.:	WO 2001-US32415	A	20011018
PRIORITY INFO.:	US 2000-09/691,197		20001019

ABEN A method for vitrification of a tissue or organ other than a blood vessel includes immersing the tissue or organ in increasing concentrations of cryoprotectant solution at a temperature greater than - 15 °C to a cryoprotectant concentration sufficient for vitrification; cooling the tissue or organ at an average rate of from 2.5-100 °C per minute to a temperature between - 80 °C and the glass transition temperature; and further cooling the tissue or organ at an average rate less than 30 °C per minute to a temperature below the glass transition temperature to vitrify the tissue or organ. After the vitrified tissue or organ has been stored, the tissue or organ may be removed from vitrification by warming the tissue or organ at an average rate of from 20-40 °C per minute to a temperature between - 80 °C and the glass transition temperature; further warming the tissue or organ at a rate of from 200-300 °C per minute to a temperature above - 75 °C; and reducing the concentration of the cryoprotectant.

ABFR L'invention concerne un procede de vitrification d'un tissu ou d'un organe autre qu'un vaisseau sanguin, consistant a immerger le tissu ou l'organe dans des concentrations croissantes d'une solution de cryoprotecteur a une temperature superieure a - 15 °C, jusqu'a une concentration de cryoprotecteur suffisante pour assurer la vitrification, a refroidir le tissu ou l'organe, a une vitesse moyenne de 2,5-100 °C par minute jusqu'a une temperature comprise entre - 80 °C et la temperature de transition vitreuse, et a refroidir ulterieurement le tissu ou l'organe a une vitesse inferieure a 30 °C par minute jusqu'a une temperature inferieure a la temperature de transition vitreuse afin de vitrifier le tissu ou l'organe. Apres stockage du tissu ou de l'organe a l'etat vitrifie, on peut amener le tissu ou l'organe a quitter l'etat vitrifie par rechauffage du tissu ou de l'organe a une vitesse moyenne de 20-40 °C par minute jusqu'a une temperature comprise entre - 80 °C et la temperature de transition vitreuse, puis par rechauffage du tissu ou de l'organe a une vitesse de 200-300 °C par minute jusqu'a une temperature superieure a - 75 °C, et par reduction de la concentration du cryoprotecteur.

=> s 11 and glycosylation
 L35 0 FILE DGENE
 L36 0 FILE FROSTI
 L37 0 FILE USPATFULL
 L38 0 FILE BIOSIS
 L39 0 FILE INPADOC

L40 1 FILE CAPLUS
 L41 1 FILE WPIDS
 L42 0 FILE PATOSWO
 L43 0 FILE SCISEARCH
 L44 0 FILE LIFESCI
 L45 0 FILE GENBANK
 L46 0 FILE IFIPAT
 L47 0 FILE JICST-EPLUS
 L48 0 FILE ESBIODBASE
 L49 0 FILE MEDLINE
 L50 0 FILE PATOSEP
 L51 0 FILE FSTA
 L52 0 FILE PHIN
 L53 0 FILE PROMT
 L54 0 FILE EMBASE
 L55 0 FILE DPCI
 L56 0 FILE EUROPATFULL
 L57 0 FILE AGRICOLA
 L58 0 FILE BIOTECHNO
 L59 0 FILE CABA
 L60 0 FILE CBNB
 L61 0 FILE INVESTEXT
 L62 0 FILE FEDRIP
 L63 0 FILE AQUASCI
 L64 0 FILE BIOBUSINESS
 L65 0 FILE JAPIO
 L66 0 FILE PCTFULL

TOTAL FOR ALL FILES

L67 2 L1 AND GLYCOSYLATION

=> d l67 1-2 ibib abs

L67 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:816714 CAPLUS

DOCUMENT NUMBER: 135:357072

TITLE: **Anti-freeze proteins,**
 their production and use

INVENTOR(S): Berry, Mark John; Doucet, Charlotte Juliette;
 Lundheim, Rolv Sigmund; Sevilla, Marie-Pierre;
 Whiteman, Sally-anne

PATENT ASSIGNEE(S): Unilever Plc, UK; Unilever Nv; Hindustan Lever Limited

SOURCE: PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001083534	A1	20011108	WO 2001-EP3927	20010406

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
 HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
 LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
 SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
 YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: GB 2000-10314 A 20000427

AB Antifreeze proteins which can be derived from the lichen *Nephroma arcticum*
 and proteins having antifreeze activity having an amino acid sequence part
 of which shows at least 80 overlap with the amino acid sequence
 L-V-I-G-S-T-A-Q(E)-N-F-G-V-V(S)-A-A-A-T. Methods for their prepn., their

use in food processing and food compns. comprising them are also described.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L67 ANSWER 2 OF 2 WPIDS (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: 1999-458697 [38] WPIDS
DOC. NO. NON-CPI: N1999-343101
DOC. NO. CPI: C1999-134718
TITLE: New plant **anti-freeze protein**
useful in frozen food products.
DERWENT CLASS: B04 C06 D13 D16 P13
INVENTOR(S): JARMAN, C D; SIDEBOTTOM, C M; TWIGG, S; WORRALL, D
PATENT ASSIGNEE(S): (JARM-I) JARMAN C D; (UNIL) UNILEVER PLC; (UNIL) UNILEVER
NV
COUNTRY COUNT: 85
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 9937782	A2	19990729	(199938)*	EN	39
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW					
W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW					
AU 9924188	A	19990809	(200001)		
BR 9814776	A	20001024	(200058)		
EP 1049783	A2	20001108	(200062)	EN	
R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
CZ 2000002696	A3	20001213	(200103)		
SK 2000001095	A3	20010212	(200112)		
CN 1290300	A	20010404	(200140)		
HU 2001001252	A2	20010828	(200157)		
MX 2000007100	A1	20010301	(200170)		
JP 2002504316	W	20020212	(200215)		39
AU 747087	B	20020509	(200238)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9937782	A2	WO 1998-EP8553	19981223
AU 9924188	A	AU 1999-24188	19981223
BR 9814776	A	BR 1998-14776	19981223
		WO 1998-EP8553	19981223
EP 1049783	A2	EP 1998-966702	19981223
		WO 1998-EP8553	19981223
CZ 2000002696	A3	WO 1998-EP8553	19981223
		CZ 2000-2696	19981223
SK 2000001095	A3	WO 1998-EP8553	19981223
		SK 2000-1095	19981223
CN 1290300	A	CN 1998-813922	19981223
HU 2001001252	A2	WO 1998-EP8553	19981223
		HU 2001-1252	19981223
MX 2000007100	A1	MX 2000-7100	20000720
JP 2002504316	W	WO 1998-EP8553	19981223
		JP 2000-528689	19981223
AU 747087	B	AU 1999-24188	19981223

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 9924188	A Based on	WO 9937782

BR 9814776	A	Based on	WO 9937782
EP 1049783	A2	Based on	WO 9937782
CZ 2000002696	A3	Based on	WO 9937782
HU 2001001252	A2	Based on	WO 9937782
JP 2002504316	W	Based on	WO 9937782
AU 747087	B	Previous Publ. Based on	AU 9924188 WO 9937782

PRIORITY APPLN. INFO: GB 1998-1408 19980122

AN 1999-458697 [38] WPIDS

AB WO 9937782 A UPAB: 19990922

NOVELTY - A plant **anti-freeze protein**

characterized in that at least 40% of its amino acids are from the group of serine, threonine and asparagine, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a nucleic acid sequence capable of encoding the **anti-freeze protein** as above;

(2) a frozen food product comprising the **anti-freeze protein**;

(3) a method of obtaining an **anti-freeze protein** as above, where the protein is produced by a genetically modified organism; and

(4) a plant, capable of expressing the **anti-freeze protein** and having an increased frost tolerance.

ACTIVITY - None Given.

MECHANISM OF ACTION - None Given.

USE - The **anti-freeze protein** can be used in frozen food products, especially frozen confectionery (claimed). **Anti-freeze proteins** are especially used in food products, which are heated, e.g. by pasteurization, blanching or sterilization prior to freezing. Plants transformed with a nucleic acid sequence encoding the **anti-freeze protein** have an increased frost tolerance (claimed).

ADVANTAGE - Prior art **anti-freeze proteins** have not been applied to commercially available food products, due to high costs and complicated process for obtaining the protein. Also prior art **anti-freeze proteins** have tended to destabilize during processing especially during the pasteurization step. This is overcome by the present **anti-freeze protein**. The **anti-freeze proteins** provide an ice particle size following an ice recrystallization inhibition assay of 15 μ M or less. The **anti-freeze protein** ingredient means that mixes can be frozen under quiescent conditions, e.g. in a shop or home freezer without the formation of unacceptable ice crystal shapes and hence with a texture different to products normally obtained via quiescent freezing.

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Search Results - Record(s) 1 through 5 of 5 returned.☐ 1. Document ID: US 20020072108 A1

L1: Entry 1 of 5

File: PGPB

Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020072108

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020072108 A1

TITLE: Processes and organisms for the production of anti-freeze proteins

PUBLICATION-DATE: June 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Berry, Mark John	Bedford		GB	
Griffiths, Allen	Bedford		GB	
Hill, Philip John	Nottingham		GB	
Laybourne-Parry, Johanna	East Leake		GB	
Mills, Sarah Victoria	Glasgow		GB	

US-CL-CURRENT: 435/252.1; 426/656, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NOAC	Draw Desc	Image
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☐ 2. Document ID: US 6096867 A

L1: Entry 2 of 5

File: USPT

US-PAT-NO: 6096867

DOCUMENT-IDENTIFIER: US 6096867 A

TITLE: Frozen food product

DATE-ISSUED: August 1, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Byass; Louise Jane	Heslington			GB
Darling; Donald Frank	Colworth			GB
Doucet; Charlotte Juliette	Heslington			GB
Fenn; Richard Anthony	Colworth			GB
Lillford; Peter John	Colworth			GB
McArthur; Andrew John	Colworth			GB
Needham; David	Colworth			GB
Sidebottom; Christopher	Colworth			GB
Smallwood; Keith	Colworth			GB
Smallwood; Margaret Felicia	Heslington			GB

US-CL-CURRENT: 530/350; 426/100, 426/101, 426/139, 426/49, 426/656, 426/660,
530/300, 530/326, 530/328

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 6017574 A

L1: Entry 3 of 5

File: USPT

US-PAT-NO: 6017574

DOCUMENT-IDENTIFIER: US 6017574 A

TITLE: Method of making frozen compositions

DATE-ISSUED: January 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Clemmings; John F.	Parsippany	NJ		
Zoerb; Hans F.	River Falls	WI		
Rosenwald; Diane R.	Shoreview	MN		
Huang; Victor T.	Moundsvew	MN		

US-CL-CURRENT: 426/565; 426/100, 426/101, 426/104, 426/139, 426/656, 426/660

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 5620732 A

L1: Entry 4 of 5

File: USPT

US-PAT-NO: 5620732

DOCUMENT-IDENTIFIER: US 5620732 A

TITLE: Method of making ice cream

DATE-ISSUED: April 15, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Clemmings; John F.	Parsippany	NJ		
Zoerb; Hans F.	River Falls	WI		
Rosenwald; Diane R.	Shoreview	MN		
Huang; Victor T.	Moundsvew	MN		

US-CL-CURRENT: 426/565; 426/100, 426/101, 426/104, 426/139, 426/656, 426/660

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 20020072108 A1 WO 200144275 A2 AU 200126726 A

L1: Entry 5 of 5

File: DWPI

Jun 13, 2002

DERWENT-ACC-NO: 2001-398120

DERWENT-WEEK: 200243

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TITLE: Preparing anti-freeze peptides useful in frozen food products, e.g. frozen vegetables and confectionery, by culturing bacteria from aqueous low-temperature environment and extracting anti-freeze proteins from culture

INVENTOR: BERRY, M J ; GRIFFITHS, A ; HILL, P J ; LAYBOURNE-PARRY, J ; MILLS, S V

PRIORITY-DATA: 1999GB-0029696 (December 15, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20020072108 A1	June 13, 2002		000	C12N001/20
WO 200144275 A2	June 21, 2001	E	058	C07K014/00
AU 200126726 A	June 25, 2001		000	C07K014/00

INT-CL (IPC): A23 J 1/00; C07 K 14/00; C07 K 14/195; C12 N 1/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	K00C	Draw Desc	Image
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Term	Documents
ANTI-FREEZE.DWPI,TDBD,EPAB,USPT,PGPB.	2809
ANTI-FREEZES.DWPI,TDBD,EPAB,USPT,PGPB.	71
PROTEIN.DWPI,TDBD,EPAB,USPT,PGPB.	221056
PROTEINS.DWPI,TDBD,EPAB,USPT,PGPB.	140121
PEPTIDE.DWPI,TDBD,EPAB,USPT,PGPB.	88692
PEPTIDES.DWPI,TDBD,EPAB,USPT,PGPB.	62805
((ANTI-FREEZE ADJ PROTEIN) AND (ANTI-FREEZE ADJ PEPTIDE)).USPT,PGPB,EPAB,DWPI,TDBD.	5
(ANTI-FREEZE ADJ PROTEIN AND (ANTI-FREEZE PEPTIDE)).USPT,PGPB,EPAB,DWPI,TDBD.	5

Display Format:

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WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 128 of 128 returned.**☐ 1. Document ID: US 20020104121 A1

L8: Entry 1 of 128

File: PGPB

Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020104121

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020104121 A1

TITLE: The maize A3 promoter and methods for use thereof

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
McElroy, David	Palo Alto	CA	US	
Kriz, Alan L.	Gales Ferry	CT	US	
Orozco, Emil M. JR.	West Grove	PA	US	
Griffor, Matt	N. Stonington	CT	US	

US-CL-CURRENT: 800/278; 536/23.6, 536/24.1[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#)☐ 2. Document ID: US 20020103222 A1

L8: Entry 2 of 128

File: PGPB

Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020103222

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020103222 A1

TITLE: Extending tissue preservation

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mangat, Harpal S.	Tampa	FL	US	

US-CL-CURRENT: 514/307; 435/1.1, 435/2, 514/315, 514/579, 514/759[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#)☐ 3. Document ID: US 20020063235 A1

L8: Entry 3 of 128

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020063235

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020063235 A1

TITLE: Prevention of ice nucleation by polyglycerol

PUBLICATION-DATE: May 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fahy, Greg	Corona	CA	US	
Wowk, Brian	Corona	CA	US	

US-CL-CURRENT: 252/70

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 4. Document ID: US 20020053097 A1

L8: Entry 4 of 128

File: PGPB

May 2, 2002

PGPUB-DOCUMENT-NUMBER: 20020053097

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020053097 A1

TITLE: Transgenic plants containing heat shock protein

PUBLICATION-DATE: May 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lindquist, Susan	Chicago	IL	US	
Queitsch, Christine	Chicago	IL	US	
Vierling, Elizabeth	Tuscon	AZ	US	

US-CL-CURRENT: 800/298; 800/278

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 5. Document ID: US 20020042131 A1

L8: Entry 5 of 128

File: PGPB

Apr 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020042131

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020042131 A1

TITLE: Cryopreservation method using cryoprotective composition of propanediol and a vehicle solution

PUBLICATION-DATE: April 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brockbank, Kelvin G.M.	Charleston	SC	US	
Taylor, Michael J.	Mount Pleasant	SC	US	
Campbell, Lia Hanson	Mount Pleasant	SC	US	

US-CL-CURRENT: 435/374

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 6. Document ID: US 20020038470 A1

L8: Entry 6 of 128

File: PGPB

Mar 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020038470

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020038470 A1

TITLE: Non-food crop plant bioreactor

PUBLICATION-DATE: March 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brandle, Jim	London		CA	
Davies, Peter L.	Kingston		CA	
Kenward, Kimberley D.	St. Vegreville		CA	
Menassa, Rima	London		CA	
Jevnikar, Anthony M.	London		CA	
Delovitch, Terry	London		CA	

US-CL-CURRENT: 800/278; 514/12, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 7. Document ID: US 20020013955 A1

L8: Entry 7 of 128

File: PGPB

Jan 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020013955

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020013955 A1

TITLE: PRODUCTION OF RECOMBINANT PROTEIN IN TRANSGENIC FISH

PUBLICATION-DATE: January 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
OGDEN, SHARON	ALAHAU	FL	US	
SCHUSTER, SHELDON M.	GAINESVILLE	FL	US	

US-CL-CURRENT: 800/20; 800/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 8. Document ID: US 20010056583 A1

L8: Entry 8 of 128

File: PGPB

Dec 27, 2001

PGPUB-DOCUMENT-NUMBER: 20010056583
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010056583 A1

TITLE: Homologous recombination-mediated transgene alterations in plants

PUBLICATION-DATE: December 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
McElroy, David	Redwood City	CA	US	
Walters, David A.	North Stonington	CT	US	
Gilbertson, Larry A.	Chesterfield	MO	US	

US-CL-CURRENT: 800/278; 435/468, 536/23.6, 536/23.7, 800/260, 800/288, 800/298,
800/300, 800/302, 800/320, 800/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 9. Document ID: US 20010055809 A1

L8: Entry 9 of 128

File: PGPB

Dec 27, 2001

PGPUB-DOCUMENT-NUMBER: 20010055809
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010055809 A1

TITLE: EXTENDING TISSUE PRESERVATION

PUBLICATION-DATE: December 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
MANGAT, HARPAL S.	TAMPA	FL	US	

US-CL-CURRENT: 435/374; 514/100

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 10. Document ID: US 20010048962 A1

L8: Entry 10 of 128

File: PGPB

Dec 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010048962
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010048962 A1

TITLE: FROZEN FOOD PRODUCT

PUBLICATION-DATE: December 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
ANTHONY FENN, RICHARD	COLWORTH		GB	
NEEDHAM, DAVID	COLWORTH		GB	
SMALLWOOD, KEITH	COLWORTH		GB	

US-CL-CURRENT: 426/565; 426/100, 426/101, 426/656, 426/660

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWAC	Draw Desc	Image
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☐ 11. Document ID: US 6429357 B1

L8: Entry 11 of 128

File: USPT

US-PAT-NO: 6429357

DOCUMENT-IDENTIFIER: US 6429357 B1

TITLE: Rice actin 2 promoter and intron and methods for use thereof

DATE-ISSUED: August 6, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McElroy; David	Palo Alto	CA		
Wu; Ray	Ithaca	NY		

US-CL-CURRENT: 800/278; 435/252.3, 435/320.1, 435/412, 435/413, 435/414, 435/416,
435/417, 435/418, 435/419, 435/468, 435/69.1, 536/23.1, 536/23.6, 536/24.1, 800/279,
800/281, 800/284, 800/289, 800/290, 800/292, 800/293, 800/294, 800/295, 800/298,
800/300, 800/301, 800/302, 800/303, 800/306, 800/312, 800/314, 800/317.2, 800/317.3,
800/317.4, 800/320, 800/320.1, 800/320.3, 800/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWAC	Draw Desc	Image
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☐ 12. Document ID: US 6429293 B1

L8: Entry 12 of 128

File: USPT

US-PAT-NO: 6429293

DOCUMENT-IDENTIFIER: US 6429293 B1

TITLE: Sculpin-type antifreeze polypeptides and nucleic acids

DATE-ISSUED: August 6, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hew; Choy L.	Thornhill	CA		

US-CL-CURRENT: 530/350; 426/321, 530/300, 530/327

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWAC	Draw Desc	Image
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☐ 13. Document ID: US 6426446 B1

L8: Entry 13 of 128

File: USPT

US-PAT-NO: 6426446

DOCUMENT-IDENTIFIER: US 6426446 B1

TITLE: Maize RS324 promoter and methods for use thereof

DATE-ISSUED: July 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McElroy; David	Palo Alto	CA		
Orozco, Jr.; Emil M.	West Grove	PA		
Laccetti; Lucille B.	Groton	CT		

US-CL-CURRENT: 800/278; 435/419, 435/430, 435/468, 536/23.6, 536/24.1, 800/260,
800/275, 800/279, 800/287, 800/289, 800/295, 800/298, 800/300, 800/302, 800/303,
800/306, 800/312, 800/314, 800/317.2, 800/317.3, 800/317.4, 800/320, 800/320.1,
800/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 14. Document ID: US 6406855 B1

L8: Entry 14 of 128

File: USPT

US-PAT-NO: 6406855

DOCUMENT-IDENTIFIER: US 6406855 B1

TITLE: Methods and compositions for polypeptide engineering

DATE-ISSUED: June 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Patten; Phillip A.	Mountain View	CA		
Stemmer; Willem P. C.	Los Gatos	CA		

US-CL-CURRENT: 435/6; 424/85.2, 424/85.4, 435/196, 435/440, 435/69.1, 435/69.51,
435/69.52, 435/91.1, 436/501, 530/350, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 15. Document ID: US 6399861 B1

L8: Entry 15 of 128

File: USPT

US-PAT-NO: 6399861

DOCUMENT-IDENTIFIER: US 6399861 B1

TITLE: Methods and compositions for the production of stably transformed, fertile monocot plants and cells thereof

DATE-ISSUED: June 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anderson; Paul C.	Stonington	CT		
Flick; Christopher E.	Old Saybrook	CT		
Gordon-Kamm; William J.	Stonington	CT		
Kausch; Albert P.	Stonington	CT		
Mackey; Catherine J.	Old Lyme	CT		
Orozco; Emil M.	Groton	CT		
Orr; Peter	Pawcatuck	CT		
Stephens; Michael A.	East Lyme	CT		
Walters; David A.	Groton	CT		
Walters; Donald S.	Mystic	CT		

US-CL-CURRENT: 800/320.1; 800/275, 800/288, 800/293, 800/301, 800/302, 800/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 16. Document ID: US 6395467 B1

L8: Entry 16 of 128

File: USPT

US-PAT-NO: 6395467

DOCUMENT-IDENTIFIER: US 6395467 B1

TITLE: Cryoprotectant solution containing dimethyl sulfoxide, an amide and ethylene glycol

DATE-ISSUED: May 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fahy; Gregory M.	Corona	CA	92879	
Wowk; Brian	Corona	CA	92879	

US-CL-CURRENT: 435/1.3; 435/1.1, 435/260

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 17. Document ID: US 6392024 B1

L8: Entry 17 of 128

File: USPT

US-PAT-NO: 6392024

DOCUMENT-IDENTIFIER: US 6392024 B1

TITLE: Tenebrio antifreeze proteins

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Graham; Laurie A.	Kingston			CA
Liou; Yih-Cherng	Kingston			CA
Walker; Virginia K.	Sydenham			CA
Davies; Peter L.	Kingston			CA

US-CL-CURRENT: 536/23.5; 435/252.3, 435/254.11, 435/254.21, 435/254.22, 435/320.1,
435/6, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 18. Document ID: US 6391224 B1

L8: Entry 18 of 128

File: USPT

US-PAT-NO: 6391224

DOCUMENT-IDENTIFIER: US 6391224 B1

TITLE: Polyvinyl alcohol compounds for inhibition of ice growth

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wowk; Brian	Corona	CA		

US-CL-CURRENT: 252/70; 106/13, 252/71, 252/73, 252/77, 47/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 19. Document ID: US 6372959 B1

L8: Entry 19 of 128

File: USPT

US-PAT-NO: 6372959

DOCUMENT-IDENTIFIER: US 6372959 B1

TITLE: Expression vector of a mud loach growth hormone gene

DATE-ISSUED: April 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kim; Dong-Soo	Pusan City			KR
Kim; Chul-Geun	Seoul			KR
Noh; Jae-Koo	Seoul			KR
Cho; Kyou-Nam	Seoul			KR
Nam; Yoon-Kwon	Pusan-City			KR

US-CL-CURRENT: 800/20; 435/320.1, 435/325, 435/455, 514/44, 536/23.1, 536/23.5,
536/23.51, 800/13, 800/25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 20. Document ID: US 6348569 B1

L8: Entry 20 of 128

File: USPT

US-PAT-NO: 6348569

DOCUMENT-IDENTIFIER: US 6348569 B1

TITLE: Spruce budworm antifreeze proteins, genes and method of using same

DATE-ISSUED: February 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Walker; Virginia K.	Sydenham			CA
Davies; Peter L.	Kingston			CA
Rahavard; Mitra	Kingston			CA
Tyshenko; Michael G.	Kingston			CA

US-CL-CURRENT: 530/300; 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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MMC	Draw Desc	Image
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☐ 21. Document ID: US 6337391 B1

L8: Entry 21 of 128

File: USPT

US-PAT-NO: 6337391

DOCUMENT-IDENTIFIER: US 6337391 B1

TITLE: Polycation-sensing receptor in aquatic species and methods of use

DATE-ISSUED: January 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harris; H. William	Dover	MA		
Brown; Edward M.	Milton	MA		
Hebert; Steven C.	Wellesley	MA		

US-CL-CURRENT: 536/23.5; 435/252.3, 435/254.11, 435/320.1, 435/325, 435/69.1, 530/350, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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MMC	Draw Desc	Image
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☐ 22. Document ID: US 6329574 B1

L8: Entry 22 of 128

File: USPT

US-PAT-NO: 6329574

DOCUMENT-IDENTIFIER: US 6329574 B1

TITLE: High lysine fertile transgenic corn plants

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lundquist; Ronald C.	Minnetonka	MN		
Walters; David A.	Groton	CT		
Kirihara; Julie A.	Bloomington	MN		

US-CL-CURRENT: [800/300.1](#); [800/278](#), [800/287](#), [800/288](#), [800/293](#), [800/320.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 23. Document ID: US 6312733 B1

L8: Entry 23 of 128

File: USPT

US-PAT-NO: 6312733

DOCUMENT-IDENTIFIER: US 6312733 B1

TITLE: Ice crystal growth inhibiting agents from *Zoarcas viviparus*

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jann; Alfred	Publier			FR
Lundheim; Rolv	Trondheim			NO

US-CL-CURRENT: [424/531](#); [426/657](#), [530/350](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 24. Document ID: US 6307123 B1

L8: Entry 24 of 128

File: USPT

US-PAT-NO: 6307123

DOCUMENT-IDENTIFIER: US 6307123 B1

TITLE: Methods and compositions for transgene identification

DATE-ISSUED: October 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kriz; Alan L.	Gales Ferry	CT		
Spencer; T. Michael	Mystic	CT		

US-CL-CURRENT: [800/282](#); [536/23.4](#), [536/24.1](#), [800/266](#), [800/288](#), [800/300](#), [800/301](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 25. Document ID: US 6307020 B1

L8: Entry 25 of 128

File: USPT

US-PAT-NO: 6307020

DOCUMENT-IDENTIFIER: US 6307020 B1

TITLE: Intracellular antifreeze polypeptides and nucleic acids

DATE-ISSUED: October 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hew; Choy	Thornhill			CA
Gong; Zhiyuan	Toronto			CA

US-CL-CURRENT: 530/350; 435/252.3, 435/320.1, 435/419, 435/68.1, 435/69.1, 435/69.7, 435/91.1, 530/300, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 26. Document ID: US 6306585 B1

L8: Entry 26 of 128

File: USPT

US-PAT-NO: 6306585

DOCUMENT-IDENTIFIER: US 6306585 B1

TITLE: Pin M III gene in white pine

DATE-ISSUED: October 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ekramoddoullah; Abul K. M.	Victoria			CA
Taylor; Douglas W.	Victoria			CA
Yu; Xueshu	Victoria			CA
Misra; Santosh	Victoria			CA

US-CL-CURRENT: 435/6; 536/22.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 27. Document ID: US 6303388 B1

L8: Entry 27 of 128

File: USPT

US-PAT-NO: 6303388

DOCUMENT-IDENTIFIER: US 6303388 B1

TITLE: Process for preparing novel ice-controlling molecules

DATE-ISSUED: October 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fahy; Gregory M.	Gaithersburg	MD		

US-CL-CURRENT: 436/518; 252/70, 424/184.1, 435/7.1, 435/7.8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 28. Document ID: US 6232526 B1

L8: Entry 28 of 128

File: USPT

US-PAT-NO: 6232526

DOCUMENT-IDENTIFIER: US 6232526 B1

TITLE: Maize A3 promoter and methods for use thereof

DATE-ISSUED: May 15, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McElroy; David	Palo Alto	CA		
Kriz; Alan L.	Gales Ferry	CT		
Orozco, Jr.; Emil M.	West Grove	PA		
Griffor; Matt	N. Stonington	CT		

US-CL-CURRENT: 800/278; 435/252.3, 435/320.1, 435/413, 435/414, 435/415, 435/416,
435/417, 435/418, 435/419, 435/468, 435/69.1, 536/23.1, 536/23.6, 536/24.1, 800/279,
800/281, 800/284, 800/287, 800/289, 800/290, 800/295, 800/298, 800/300, 800/312,
800/314, 800/317.2, 800/317.3, 800/317.4, 800/320, 800/320.1, 800/320.2, 800/320.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 29. Document ID: US 6207879 B1

L8: Entry 29 of 128

File: USPT

US-PAT-NO: 6207879

DOCUMENT-IDENTIFIER: US 6207879 B1

TITLE: Maize RS81 promoter and methods for use thereof

DATE-ISSUED: March 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McElroy; David	Palo Alto	CA		
Orozco, Jr.; Emil M.	West Grove	PA		
Laccetti; Lucille B.	Groton	CT		

US-CL-CURRENT: 800/278; 435/252.3, 435/320.1, 435/418, 435/419, 435/468, 435/69.1,
536/23.1, 536/23.6, 536/24.1, 800/279, 800/281, 800/284, 800/287, 800/289, 800/290,
800/292, 800/293, 800/294, 800/295, 800/298, 800/300, 800/301, 800/302, 800/303,
800/306, 800/312, 800/314, 800/317, 800/317.2, 800/317.3, 800/317.4, 800/320,
800/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 30. Document ID: US 6200622 B1

L8: Entry 30 of 128

File: USPT

US-PAT-NO: 6200622

DOCUMENT-IDENTIFIER: US 6200622 B1

TITLE: Frozen food product

DATE-ISSUED: March 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Darling; Donald Frank	Colworth			GB
Hoddle; Andrew	Colworth			GB

US-CL-CURRENT: 426/565; 426/101, 426/524, 426/656, 426/660, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 31. Document ID: US 6194636 B1

L8: Entry 31 of 128

File: USPT

US-PAT-NO: 6194636

DOCUMENT-IDENTIFIER: US 6194636 B1

TITLE: Maize RS324 promoter and methods for use thereof

DATE-ISSUED: February 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McElroy; David	Palo Alto	CA		
Orozco, Jr.; Emil M.	West Grove	PA		
Laccetti; Lucille B.	Groton	CT		

US-CL-CURRENT: 800/278; 435/252.3, 435/320.1, 435/418, 435/419, 435/468, 435/69.1, 536/23.1, 536/23.6, 536/24.1, 800/279, 800/281, 800/284, 800/287, 800/289, 800/290, 800/292, 800/293, 800/294, 800/295, 800/298, 800/300, 800/301, 800/302, 800/303, 800/306, 800/312, 800/314, 800/317.2, 800/317.3, 800/317.4, 800/320.1, 800/320.2, 800/320.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 32. Document ID: US 6174550 B1

L8: Entry 32 of 128

File: USPT

US-PAT-NO: 6174550

DOCUMENT-IDENTIFIER: US 6174550 B1

TITLE: Antifreeze polypeptide-expressing microorganisms useful in fermentation and frozen storage of foods

DATE-ISSUED: January 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fletcher; Garth L.	St. John's			CA
Hew; Choy L.	Thornhill			CA
Joshi; Shashikant B.	Toronto			CA
Wu; Yaling	St. John's			CA

US-CL-CURRENT: 426/34; 426/36, 426/42, 426/580, 426/583, 435/252.9, 435/253.4,
435/41, 435/71.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 33. Document ID: US 6156953 A

L8: Entry 33 of 128

File: USPT

US-PAT-NO: 6156953

DOCUMENT-IDENTIFIER: US 6156953 A

TITLE: Plant artificial chromosome compositions and methods

DATE-ISSUED: December 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Preuss; Daphne	Chicago	IL		
Copenhaver; Gregory	Oak Park	IL		

US-CL-CURRENT: 800/278; 800/260, 800/268, 800/279, 800/281, 800/283, 800/284,
800/289, 800/292, 800/293, 800/294, 800/295, 800/298, 800/306

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 34. Document ID: US 6156880 A

L8: Entry 34 of 128

File: USPT

US-PAT-NO: 6156880

DOCUMENT-IDENTIFIER: US 6156880 A

TITLE: Frozen food product

DATE-ISSUED: December 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lillford; Peter John	Colworth			GB
McArthur; Andrew John	Colworth			GB
Sidebottom; Christopher Michael	Colworth			GB
Wilding; Peter	Colworth			GB

US-CL-CURRENT: 530/350; 426/524, 426/656, 426/660

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 35. Document ID: US 6153811 A

L8: Entry 35 of 128

File: USPT

US-PAT-NO: 6153811

DOCUMENT-IDENTIFIER: US 6153811 A

TITLE: Method for reduction of transgene copy number

DATE-ISSUED: November 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lowe; Brenda A.	Mystic	CT		
Spencer; T. Michael	Mystic	CT		
Kausch; Albert P.	Stonington	CT		

US-CL-CURRENT: 800/278; 435/468, 435/470, 435/6, 435/69.1, 800/290, 800/292,
800/293, 800/294, 800/295, 800/305, 800/306, 800/312, 800/314, 800/316, 800/317.2,
800/317.3, 800/320, 800/320.1, 800/320.2, 800/320.3, 800/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 36. Document ID: US 6139878 A

L8: Entry 36 of 128

File: USPT

US-PAT-NO: 6139878

DOCUMENT-IDENTIFIER: US 6139878 A

TITLE: Method for preparing a diafiltered stabilized blood product

DATE-ISSUED: October 31, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Summaria; Louis	Villa Park	IL		
Roth; Nathan	Bourbonnais	IL		
Berhe; Aberash	Bourbonnais	IL		
Even; Mark	Bourbonnais	IL		

US-CL-CURRENT: 424/529; 424/532, 424/533, 435/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 37. Document ID: US 6096867 A

L8: Entry 37 of 128

File: USPT

US-PAT-NO: 6096867

DOCUMENT-IDENTIFIER: US 6096867 A

TITLE: Frozen food product

DATE-ISSUED: August 1, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Byass; Louise Jane	Heslington			GB
Darling; Donald Frank	Colworth			GB
Doucet; Charlotte Juliette	Heslington			GB
Fenn; Richard Anthony	Colworth			GB
Lillford; Peter John	Colworth			GB
McArthur; Andrew John	Colworth			GB
Needham; David	Colworth			GB
Sidebottom; Christopher	Colworth			GB
Smallwood; Keith	Colworth			GB
Smallwood; Margaret Felicia	Heslington			GB

US-CL-CURRENT: 530/350; 426/100, 426/101, 426/139, 426/49, 426/656, 426/660,
530/300, 530/326, 530/328

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 38. Document ID: US 6090917 A

L8: Entry 38 of 128

File: USPT

US-PAT-NO: 6090917

DOCUMENT-IDENTIFIER: US 6090917 A

TITLE: Frozen food product

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lillford; Peter John	Colworth			GB
McArthur; Andrew John	Colworth			GB
Sidebottom; Christopher Michael	Colworth			GB

US-CL-CURRENT: 530/350; 426/100, 426/101, 426/104, 426/139, 426/565, 530/300,
530/326, 530/327, 530/328

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 39. Document ID: US 6025545 A

L8: Entry 39 of 128

File: USPT

US-PAT-NO: 6025545

DOCUMENT-IDENTIFIER: US 6025545 A

TITLE: Methods and compositions for the production of stably transformed, fertile monocot plants and cells thereof

DATE-ISSUED: February 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lundquist; Ronald C.	Minnetonka	MN		
Walters; David A.	Groton	CT		
Spencer; T. Michael	Mystic	CT		
Mackey; Catherine J.	Old Lyme	CT		

US-CL-CURRENT: 800/300.1; 536/23.1, 536/24.1, 800/298, 800/300, 800/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 40. Document ID: US 6017574 A

L8: Entry 40 of 128

File: USPT

US-PAT-NO: 6017574

DOCUMENT-IDENTIFIER: US 6017574 A

TITLE: Method of making frozen compositions

DATE-ISSUED: January 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Clemmings; John F.	Parsippany	NJ		
Zoerb; Hans F.	River Falls	WI		
Rosenwald; Diane R.	Shoreview	MN		
Huang; Victor T.	Moundsview	MN		

US-CL-CURRENT: 426/565; 426/100, 426/101, 426/104, 426/139, 426/656, 426/660

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 41. Document ID: US 6008016 A

L8: Entry 41 of 128

File: USPT

US-PAT-NO: 6008016

DOCUMENT-IDENTIFIER: US 6008016 A

TITLE: Spruce budworm antifreeze proteins, genes and methods of using same

DATE-ISSUED: December 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Walker; Virginia K.	Sydenham			CA
Davies; Peter L.	Kingston			CA
Rahavard; Mitra	Kingston			CA
Tyshenko; Michael G.	Kingston			CA

US-CL-CURRENT: 435/69.1; 435/252.3, 435/252.33, 435/254.11, 435/254.2, 435/254.21,
435/320.1, 435/325, 435/410, 530/300, 530/350, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 42. Document ID: US 5990390 A

L8: Entry 42 of 128

File: USPT

US-PAT-NO: 5990390

DOCUMENT-IDENTIFIER: US 5990390 A

TITLE: Methods and compositions for the production of stably transformed, fertile monocot plants and cells thereof

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lundquist; Ronald C.	Minnetonka	MN		
Walters; David A.	Groton	CT		
Kirihara; Julie A.	Bloomington	MN		

US-CL-CURRENT: 800/302; 536/23.71, 800/265, 800/268, 800/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 43. Document ID: US 5989827 A

L8: Entry 43 of 128

File: USPT

US-PAT-NO: 5989827

DOCUMENT-IDENTIFIER: US 5989827 A

TITLE: Use of nuclear magnetic resonance to design ligands to target biomolecules

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fesik; Stephen W.	Gurnee	IL		
Hajduk; Philip J.	Palatine	IL		
Olejniczak; Edward T.	Grayslake	IL		

US-CL-CURRENT: 435/7.1; 436/173, 436/501

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 44. Document ID: US 5985538 A

L8: Entry 44 of 128

File: USPT

US-PAT-NO: 5985538

DOCUMENT-IDENTIFIER: US 5985538 A

TITLE: Cryopreservation and cell culture medium comprising less than 50 mM sodium ions and greater than 100 mM choline salt

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stachecki; James J.	Parsippany	NJ		

US-CL-CURRENT: 435/1.1; 435/1.3, 435/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 45. Document ID: US 5972679 A

L8: Entry 45 of 128

File: USPT

US-PAT-NO: 5972679

DOCUMENT-IDENTIFIER: US 5972679 A

TITLE: Cold tolerances in plants

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Griffith; Marilyn	Waterloo			CA

US-CL-CURRENT: 435/204; 435/205, 435/209, 530/350, 530/370, 530/372, 530/379

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 46. Document ID: US 5969213 A

L8: Entry 46 of 128

File: USPT

US-PAT-NO: 5969213

DOCUMENT-IDENTIFIER: US 5969213 A

TITLE: Methods and compositions for the production of stably transformed fertile monocot plants and cells thereof

DATE-ISSUED: October 19, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Adams; Thomas R.	No. Stonington	CT		
Chambers; Sheryl A.	Groton	CT		
Daines; Richard J.	Ledyard	CT		
Gordon-Kamm; William J.	Stonington	CT		
Kausch; Albert P.	Stonington	CT		
Lemaux; Peggy G.	Mystic	CT		
Mackey; Catherine J.	Old Lyme	CT		
Mangano; May L.	Westerly	RI		
O'Brien; James V.	Mystic	CT		
Rice; Thomas B.	Waterford	CT		
Spencer; T. Michael	Mystic	CT		
Start; William G.	North Stonington	CT		
Willetts; Nancy G.	Mantic	CT		

US-CL-CURRENT: 800/300; 435/410, 47/DIG.1, 800/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 47. Document ID: US 5932697 A

L8: Entry 47 of 128

File: USPT

US-PAT-NO: 5932697

DOCUMENT-IDENTIFIER: US 5932697 A

TITLE: Synthetic antifreeze peptide

DATE-ISSUED: August 3, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Caceci; Thomas	Blacksburg	VA		
Toth; Thomas E.	Blacksburg	VA		
Szumanski; Maria B.	Roanoke	VA		

US-CL-CURRENT: 530/350; 435/252.33, 435/69.1, 530/300, 530/857

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 48. Document ID: US 5932225 A

L8: Entry 48 of 128

File: USPT

US-PAT-NO: 5932225

DOCUMENT-IDENTIFIER: US 5932225 A

TITLE: Vaccine comprising eimeria spp. gametocyte antigen

DATE-ISSUED: August 3, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wallach; Michael	Jerusalem			IL
Pugatsch; Thea	Maaleh Adumin			IL
Mencher; David	Jerusalem			IL

US-CL-CURRENT: 424/267.1; 424/184.1, 424/185.1, 424/191.1, 424/271.1, 424/276.1,
435/69.1, 435/69.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 49. Document ID: US 5928877 A

L8: Entry 49 of 128

File: USPT

US-PAT-NO: 5928877

DOCUMENT-IDENTIFIER: US 5928877 A

TITLE: Assay for an antifreeze protein

DATE-ISSUED: July 27, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lusk; Lance	Milwaukee	WI		
Cronan; Charles L.	Shorewood	WI		

US-CL-CURRENT: 435/7.1; 435/14, 435/7.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 50. Document ID: US 5925540 A

L8: Entry 50 of 128

File: USPT

US-PAT-NO: 5925540

DOCUMENT-IDENTIFIER: US 5925540 A

TITLE: Synthetic antifreeze peptide and synthetic gene coding for its production

DATE-ISSUED: July 20, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Caceci; Thomas	Blacksburg	VA		
Toth; Thomas E.	Blacksburg	VA		
Szumanski; Maria B. W.	Roanoke	VA		

US-CL-CURRENT: 435/69.1; 435/252.3, 435/252.33, 435/320.1, 435/440, 435/91.1,
435/91.4, 536/23.1, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 51. Document ID: US 5919675 A

L8: Entry 51 of 128

File: USPT

US-PAT-NO: 5919675

DOCUMENT-IDENTIFIER: US 5919675 A

TITLE: Methods and compositions for the production of stably transformed, fertile monocot plants and cells thereof

DATE-ISSUED: July 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Adams; Thomas R.	North Stonington	CT		
Chambers; Sheryl A.	Groton	CT		
Daines; Richard J.	Ledyard	CT		
Gordon-Kamm; William J.	Stonington	CT		
Kausch; Albert P.	Stonington	CT		
Lemaux; Peggy G.	Mystic	CT		
Mackey; Catherine J.	Old Lyme	CT		
Mangano; Mary L.	Westerly	RI		
O'Brien; James V.	Mystic	CT		
Rice; Thomas B.	Waterford	CT		
Spencer; T. Michael	Mystic	CT		
Start; William G.	North Stonington	CT		
Willetts; Nancy G.	Niantic	CT		

US-CL-CURRENT: 800/260; 435/410, 435/424, 47/DIG.1, 800/279, 800/287, 800/293

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWAC	Draw Desc	Image
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☐ 52. Document ID: US 5879561 A

L8: Entry 52 of 128

File: USPT

US-PAT-NO: 5879561

DOCUMENT-IDENTIFIER: US 5879561 A

TITLE: Method for inhibiting the plugging of conduits by gas hydrates

DATE-ISSUED: March 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klomp; Ulfert Cornelis	Amsterdam			NL
Reijnhart; Rene	Amsterdam			NL

US-CL-CURRENT: 210/698; 585/15, 585/899, 585/950

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWAC	Draw Desc	Image
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☐ 53. Document ID: US 5874265 A

L8: Entry 53 of 128

File: USPT

US-PAT-NO: 5874265

DOCUMENT-IDENTIFIER: US 5874265 A

TITLE: Methods and compositions for the production of stably transformed fertile monocot plants and cells thereof

DATE-ISSUED: February 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Adams; Thomas R.	No. Stonington	CT		
Chambers; Sheryl A.	Groton	CT		
Daines; Richard J.	Ledyard	CT		
Gordon-Kamm; William J.	Stonington	CT		
Kausch; Albert P.	Stonington	CT		
Lemaux; Peggy G.	Mystic	CT		
Mackey; Catherine J.	Old Lyme	CT		
Mangano; Mary L.	Westerly	RI		
O'Brien; James V.	Mystic	CT		
Rice; Thomas B.	Waterford	CT		
Spencer; T. Michael	Mystic	CT		
Start; William G.	North Stonington	CT		
Willetts; Nancy G.	Niantic	CT		

US-CL-CURRENT: 800/260; 800/266, 800/268, 800/278, 800/291

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 54. Document ID: US 5869092 A

L8: Entry 54 of 128

File: USPT

US-PAT-NO: 5869092

DOCUMENT-IDENTIFIER: US 5869092 A

TITLE: Prevention of leakage and phase separation during thermotropic phase transition in liposomes and biological cells

DATE-ISSUED: February 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hays; Lisa M.	Davis	CA		
Crowe; John H.	Davis	CA		
Crowe; Lois M.	Davis	CA		
Feeney; Robert E.	Davis	CA		
Oliver; Ann E.	Davis	CA		

US-CL-CURRENT: 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 55. Document ID: US 5852172 A

L8: Entry 55 of 128

File: USPT

US-PAT-NO: 5852172

DOCUMENT-IDENTIFIER: US 5852172 A

TITLE: Cold tolerances in plants

DATE-ISSUED: December 22, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Griffith; Marilyn	Waterloo			CA

US-CL-CURRENT: 530/379; 435/204, 435/205, 435/209, 530/360, 530/370, 530/372

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 56. Document ID: US 5849537 A

L8: Entry 56 of 128

File: USPT

US-PAT-NO: 5849537

DOCUMENT-IDENTIFIER: US 5849537 A

TITLE: Method of expressing antifreeze proteins in yeast

DATE-ISSUED: December 15, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tripp; Matthew	Nashotah	WI		
Lusk; Lance	Milwaukee	WI		
Rhodes; Thomas	Cedarburg	WI		
Huige; Nick	Brookfield	WI		
Kot; Edward	Delafield	WI		
Chicoye; Etzer	Wauwatosa	WI		
Barney; Michael C.	Wauwatosa	WI		
Bower; Patricia A.	Milwaukee	WI		
Cronan; Charles L.	Shorewood	WI		

US-CL-CURRENT: 435/69.7; 435/254.21, 435/320.1, 536/23.4, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 57. Document ID: US 5763271 A

L8: Entry 57 of 128

File: USPT

US-PAT-NO: 5763271

DOCUMENT-IDENTIFIER: US 5763271 A

TITLE: Vasodilatory and immune suppressant peptides

DATE-ISSUED: June 9, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ribeiro; Jose M. C.	Tucson	AZ		
Titus; Richard G.	Needham	MA		
Shoemaker; Charles B.	Weston	MA		
Remold; Heinz G.	Brookline	MA		
Lerner; Ethan A.	Newton	MA		

US-CL-CURRENT: 435/325; 435/252.3, 435/254.11, 435/320.1, 435/419, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 58. Document ID: US 5756458 A

L8: Entry 58 of 128

File: USPT

US-PAT-NO: 5756458

DOCUMENT-IDENTIFIER: US 5756458 A

TITLE: Stabilized potent GRF analogs

DATE-ISSUED: May 26, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kubiak; Teresa M.	Richland	MI		
Friedman; Alan R.	Portage	MI		

US-CL-CURRENT: 514/12; 530/324, 930/120, 930/DIG.559

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 59. Document ID: US 5716834 A

L8: Entry 59 of 128

File: USPT

US-PAT-NO: 5716834

DOCUMENT-IDENTIFIER: US 5716834 A

TITLE: Cloned factor C cDNA of the Singapore horseshoe crab, Carinoscorpius rotundicauda and purification of factor C proenzyme

DATE-ISSUED: February 10, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ding; Jeak Ling	Singapore			SG
Ho; Bow	Singapore			SG

US-CL-CURRENT: 435/219; 435/252.33, 435/254.11, 435/320.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 60. Document ID: US 5714575 A

L8: Entry 60 of 128

File: USPT

US-PAT-NO: 5714575

DOCUMENT-IDENTIFIER: US 5714575 A

TITLE: Nucleic acids sequence, stress-induced proteins and uses thereof

DATE-ISSUED: February 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Inouye; Masayori	Bridgewater	NJ		
Jones; Pamela	Edison	NJ		
Etchegaray; Jean-Pierre	Piscataway	NJ		
Jiang; Weining	Edison	NJ		
Pollitt; N. Stephen	Los Altos	CA		
Goldstein; Joel	North Brunswick	NJ		

US-CL-CURRENT: 530/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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MMC	Draw Desc	Image
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☐ 61. Document ID: US 5712144 A

L8: Entry 61 of 128

File: USPT

US-PAT-NO: 5712144

DOCUMENT-IDENTIFIER: US 5712144 A

TITLE: Cloned factor C cDNA of the Singapore Horseshoe Crab, Carinoscorpius rotundicauda and purification of Factor C proenzyme

DATE-ISSUED: January 27, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ding; Jeak Ling	Singapore			SG
Ho; Bow	Singapore			SG

US-CL-CURRENT: 435/219; 424/522, 424/94.63, 424/94.64, 435/226

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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MMC	Draw Desc	Image
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☐ 62. Document ID: US 5695954 A

L8: Entry 62 of 128

File: USPT

US-PAT-NO: 5695954

DOCUMENT-IDENTIFIER: US 5695954 A

TITLE: DNA encoding two fish neuropeptides

DATE-ISSUED: December 9, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sherwood; Nancy Gail McKeown	Victoria			CA
Parker; David Bernard	Victoria			CA
McRory; John Edwin	Victoria			CA
Lescheid; David William	Victoria			CA

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 435/325, 435/365.1, 435/69.2,
435/69.4, 536/23.1, 536/23.51

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 63. Document ID: US 5686249 A

L8: Entry 63 of 128

File: USPT

US-PAT-NO: 5686249

DOCUMENT-IDENTIFIER: US 5686249 A

TITLE: Test for determining frost hardiness of conifer seedlings and protein and antibody related thereto

DATE-ISSUED: November 11, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ekramoddoullah; Abul K. M.	Victoria			CA

US-CL-CURRENT: 435/7.1; 435/7.92, 435/975, 47/58.1R, 530/350, 530/387.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 64. Document ID: US 5676985 A

L8: Entry 64 of 128

File: USPT

US-PAT-NO: 5676985

DOCUMENT-IDENTIFIER: US 5676985 A

TITLE: Antifreeze polypeptide-expressing microorganisms useful in fermentation and freezing of foods

DATE-ISSUED: October 14, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fletcher; Garth L.	St. John's			CA
Hew; Choy L.	Thornhill			CA
Joshi; Shashikant B.	Toronto			CA
Wu; Yaling	St. John's			CA

US-CL-CURRENT: 426/36; 426/34, 426/42, 435/252.9, 435/253.4, 435/41, 435/71.1,
530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 65. Document ID: US 5670354 A

L8: Entry 65 of 128

File: USPT

US-PAT-NO: 5670354

DOCUMENT-IDENTIFIER: US 5670354 A

TITLE: Use of VSV-G pseudotyped vectors for transfer of genes into embryos

DATE-ISSUED: September 23, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burns; Jane C.	La Jolla	CA		
Yee; Jiing-Kuan	Del Mar	CA		
Friedmann; Theodore	La Jolla	CA		

US-CL-CURRENT: 800/21; 435/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 66. Document ID: US 5654279 A

L8: Entry 66 of 128

File: USPT

US-PAT-NO: 5654279

DOCUMENT-IDENTIFIER: US 5654279 A

TITLE: Tissue destruction in cryosurgery by use of thermal hysteresis

DATE-ISSUED: August 5, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rubinsky; Boris	Albany	CA		
Koushafar; Amir-Homayoon	Richmond	CA		

US-CL-CURRENT: 514/21; 128/DIG.27, 514/8, 606/20, 606/21

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 67. Document ID: US 5648575 A

L8: Entry 67 of 128

File: USPT

US-PAT-NO: 5648575

DOCUMENT-IDENTIFIER: US 5648575 A

TITLE: Method for inhibiting the plugging of conduits by gas hydrates

DATE-ISSUED: July 15, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klomp; Ulfert Cornelis	Amsterdam			NL
Kruka; Vitold Raimond	Houston	TX		
Reijnhart; Rene	Amsterdam			NL
Weisenborn; Anton Jacobus	Amsterdam			NL

US-CL-CURRENT: 585/15; 585/899

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 68. Document ID: US 5633451 A

L8: Entry 68 of 128

File: USPT

US-PAT-NO: 5633451

DOCUMENT-IDENTIFIER: US 5633451 A

TITLE: Transgenic plants having a nucleic acid sequence encoding a dendroides antifreeze protein

DATE-ISSUED: May 27, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Duman; John G.	South Bend	IN		

US-CL-CURRENT: 800/295; 435/419, 435/69.1, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 69. Document ID: US 5627051 A

L8: Entry 69 of 128

File: USPT

US-PAT-NO: 5627051

DOCUMENT-IDENTIFIER: US 5627051 A

TITLE: Nucleic acid sequences encoding dendroides antifreeze proteins

DATE-ISSUED: May 6, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Duman; John G.	South Bend	IN		

US-CL-CURRENT: 435/69.1; 536/23.5, 536/24.31

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 70. Document ID: US 5622698 A

L8: Entry 70 of 128

File: USPT

US-PAT-NO: 5622698

DOCUMENT-IDENTIFIER: US 5622698 A

TITLE: Method and composition for increasing the supercooling point in invertebrates

DATE-ISSUED: April 22, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee, Jr.; Richard E.	Hamilton	OH		

US-CL-CURRENT: 424/93.4; 435/243, 435/252.34, 435/847, 435/874

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 71. Document ID: US 5620732 A

L8: Entry 71 of 128

File: USPT

US-PAT-NO: 5620732

DOCUMENT-IDENTIFIER: US 5620732 A

TITLE: Method of making ice cream

DATE-ISSUED: April 15, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Clemmings; John F.	Parsippany	NJ		
Zoerb; Hans F.	River Falls	WI		
Rosenwald; Diane R.	Shoreview	MN		
Huang; Victor T.	Moundsview	MN		

US-CL-CURRENT: 426/565; 426/100, 426/101, 426/104, 426/139, 426/656, 426/660

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 72. Document ID: US 5550318 A

L8: Entry 72 of 128

File: USPT

US-PAT-NO: 5550318

DOCUMENT-IDENTIFIER: US 5550318 A

TITLE: Methods and compositions for the production of stably transformed, fertile monocot plants and cells thereof

DATE-ISSUED: August 27, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Adams; Thomas R.	No. Stonington	CT		
Chambers; Sheryl A.	Groton	CT		
Daines; Richard J.	Ledyard	CT		
Gordon-Kamm; William J.	Stonington	CT		
Kausch; Albert P.	Stonington	CT		
Lemaux; Peggy G.	Mystic	CT		
Mackey; Catherine J.	Old Lyme	CT		
Mangano; Mary L.	Westerly	RI		
O'Brien; James V.	Mystic	CT		
Rice; Thomas B.	Waterford	CT		
Spencer; T. Michael	Mystic	CT		
Start; William G.	North Stonington	CT		
Willetts; Nancy G.	Niantic	CT		

US-CL-CURRENT: 800/300.1; 435/412, 435/413, 800/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 73. Document ID: US 5545808 A

L8: Entry 73 of 128

File: USPT

US-PAT-NO: 5545808

DOCUMENT-IDENTIFIER: US 5545808 A

TITLE: Transgenic salmonid fish expressing exogenous salmonid growth hormone

DATE-ISSUED: August 13, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hew; Choy L.	Thornhill			CA
Fletcher; Garth L.	St. John's			CA

US-CL-CURRENT: 800/20; 435/69.4, 800/25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 74. Document ID: US 5512421 A

L8: Entry 74 of 128

File: USPT

US-PAT-NO: 5512421

DOCUMENT-IDENTIFIER: US 5512421 A

TITLE: Generation, concentration and efficient transfer of VSV-G pseudotyped retroviral vectors

DATE-ISSUED: April 30, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burns; Jane C.	La Jolla	CA		
Yee; Jiing-Kuan	Del Mar	CA		
Friedmann; Theodore	La Jolla	CA		

US-CL-CURRENT: 435/320.1; 424/93.2, 435/239

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 75. Document ID: US 5496550 A

L8: Entry 75 of 128

File: USPT

US-PAT-NO: 5496550

DOCUMENT-IDENTIFIER: US 5496550 A

TITLE: Method of reducing the output of Eimeria oocysts from a newborn chick

DATE-ISSUED: March 5, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wallach; Michael	Jerusalem			IL
Pugatsch; Thea	Maaleh Adumin			IL
Mencher; David	Jerusalem			IL

US-CL-CURRENT: 424/184.1; 424/267.1, 424/271.1, 424/276.1, 435/69.1, 435/69.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 76. Document ID: US 5489520 A

L8: Entry 76 of 128

File: USPT

US-PAT-NO: 5489520

DOCUMENT-IDENTIFIER: US 5489520 A

TITLE: Process of producing fertile transgenic zea mays plants and progeny comprising a gene encoding phosphinothricin acetyl transferase

DATE-ISSUED: February 6, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Adams; Thomas R.	North Stonington	CT		
Chambers; Sheryl A.	Groton	CT		
Daines; Richard J.	Ledyard	CT		
Gordon-Kamm; William J.	Stonington	CT		
Kausch; Albert P.	Stonington	CT		
Lemaux; Peggy G.	Mystic	CT		
Mackey; Catherine J.	Old Lyme	CT		
Mangano; Mary L.	Westerly	RI		
O'Brien; James V.	Mystic	CT		
Rice; Thomas B.	Waterford	CT		
Spencer; T. Michael	Mystic	CT		
Start; William G.	North Stonington	CT		
Willetts; Nancy G.	Niantic	CT		

US-CL-CURRENT: 800/293; 536/23.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 77. Document ID: US 5460728 A

L8: Entry 77 of 128

File: USPT

US-PAT-NO: 5460728

DOCUMENT-IDENTIFIER: US 5460728 A

TITLE: Method for inhibiting the plugging of conduits by gas hydrates

DATE-ISSUED: October 24, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klomp; Ulfert C.	Amsterdam			NL
Kruka; Vitold R.	Houston	TX		
Reijnhart; Rene	Amsterdam			NL
Weisenborn; Anton J.	Amsterdam			NL

US-CL-CURRENT: 210/698; 252/70, 252/71, 252/77, 585/15, 585/899, 585/950

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 78. Document ID: US 5455164 A

L8: Entry 78 of 128

File: USPT

US-PAT-NO: 5455164

DOCUMENT-IDENTIFIER: US 5455164 A

TITLE: Ruminant immortalized mammary epithelial cell lines

DATE-ISSUED: October 3, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Turner; Jeffrey D.	Hudson			CA

US-CL-CURRENT: 435/6; 435/325, 435/69.1, 435/948

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 79. Document ID: US 5358931 A

L8: Entry 79 of 128

File: USPT

US-PAT-NO: 5358931

DOCUMENT-IDENTIFIER: US 5358931 A

TITLE: Interaction of thermal hysteresis proteins with cells and cell membranes and associated applications

DATE-ISSUED: October 25, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rubinsky; Boris	Albany	CA		
Devries; Arthur L.	Urbana	IL		
Arav; Amir	Albany	CA		

US-CL-CURRENT: 514/12; 424/523, 435/1.3, 435/2, 514/2, 514/21, 514/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 80. Document ID: US 5356816 A

L8: Entry 80 of 128

File: USPT

US-PAT-NO: 5356816

DOCUMENT-IDENTIFIER: US 5356816 A

TITLE: Method and compositions using polypeptides of arabidopsis thaliana

DATE-ISSUED: October 18, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thomashow; Michael F.	East Lansing	MI		

US-CL-CURRENT: 435/320.1; 530/370, 530/379, 536/23.6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 81. Document ID: US 5348852 A

L8: Entry 81 of 128

File: USPT

US-PAT-NO: 5348852

DOCUMENT-IDENTIFIER: US 5348852 A

TITLE: Diagnostic and therapeutic compositions

DATE-ISSUED: September 20, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bonderman; Ruby P.	Noblesville	IN		

US-CL-CURRENT: 435/4; 435/188, 436/16, 436/18, 436/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMC	Draw Desc	Image
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☐ 82. Document ID: US 5296462 A

L8: Entry 82 of 128

File: USPT

US-PAT-NO: 5296462

DOCUMENT-IDENTIFIER: US 5296462 A

TITLE: Method and compositions using polypeptides of arabidopsis thaliana

DATE-ISSUED: March 22, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thomashow; Michael F.	East Lansing	MI		

US-CL-CURRENT: 514/2; 514/12, 530/324, 530/350, 530/370, 530/379, 536/23.6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMC	Draw Desc	Image
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☐ 83. Document ID: US 5278284 A

L8: Entry 83 of 128

File: USPT

US-PAT-NO: 5278284

DOCUMENT-IDENTIFIER: US 5278284 A

TITLE: Protein purification method

DATE-ISSUED: January 11, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lusk; Lance T.	Milwaukee	WI		
Goldstein; Henry	Brookfield	WI		

US-CL-CURRENT: 530/305; 530/412, 530/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMC	Draw Desc	Image
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☐ 84. Document ID: US 5251398 A

L8: Entry 84 of 128

File: USPT

US-PAT-NO: 5251398

DOCUMENT-IDENTIFIER: US 5251398 A

TITLE: Fibrous coatings for protecting fruit bearing or blossoming trees, shrubs or other vegetation from freeze and frost

DATE-ISSUED: October 12, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Balassa; Leslie L.	Blooming Grove	NY	10914	

US-CL-CURRENT: 47/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 85. Document ID: US 5177011 A

L8: Entry 85 of 128

File: USPT

US-PAT-NO: 5177011

DOCUMENT-IDENTIFIER: US 5177011 A

TITLE: Plant elongation factor promoters, coding sequences and uses

DATE-ISSUED: January 5, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shewmaker; Christine K.	Woodland	CA		
Hiatt; William R.	Davis	CA		
Pokalsky; Ann R.	Brooklyn	NY		

US-CL-CURRENT: 435/69.1; 435/317.1, 435/423, 536/23.6, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 86. Document ID: US 5118792 A

L8: Entry 86 of 128

File: USPT

US-PAT-NO: 5118792

DOCUMENT-IDENTIFIER: US 5118792 A

TITLE: Ice crystal growth suppression polypeptides and method of making

DATE-ISSUED: June 2, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Warren; Gareth J.	San Francisco	CA		
Mueller; Gunhild M.	San Francisco	CA		
McKown; Robert L.	Albany	CA		

US-CL-CURRENT: 530/350; 426/321, 426/656, 426/657, 435/69.1, 435/69.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 87. Document ID: US 4977085 A

L8: Entry 87 of 128

File: USPT

US-PAT-NO: 4977085

DOCUMENT-IDENTIFIER: US 4977085 A

TITLE: Cloning and expression of yeast STE13 and Dpp2 genes encoding dipeptidyl aminopeptidase A and B

DATE-ISSUED: December 11, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sprague; George	Eugene	OR		
Herskowitz; Ira	Berkeley	CA		
Thorner; Jeremy	Berkeley	CA		
Julius; David	New York	NY		
Blair; Lindley	Los Angeles	CA		
Brake; Anthony	Berkeley	CA		

US-CL-CURRENT: 435/212; 435/224, 435/254.2, 435/320.1, 435/483, 536/23.2, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 88. Document ID: US 4565643 A

L8: Entry 88 of 128

File: USPT

US-PAT-NO: 4565643

DOCUMENT-IDENTIFIER: US 4565643 A

TITLE: Antifreezing agent

DATE-ISSUED: January 21, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arai; Soichi	Yokohama			JP
Watanabe; Michiko	Matsudo			JP

US-CL-CURRENT: 252/70; 252/73, 435/1.3, 530/354, 530/360, 530/362, 530/365, 530/378, 530/405

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 89. Document ID: WO 9906565 A2

L8: Entry 89 of 128

File: EPAB

Feb 11, 1999

PUB-NO: WO009906565A2
DOCUMENT-IDENTIFIER: WO 9906565 A2
TITLE: ANTIFREEZE PROTEINS, DNA AND EXPRESSION SYSTEMS

PUBN-DATE: February 11, 1999

INVENTOR-INFORMATION:

NAME	COUNTRY
HEW, CHOY	CA
XIONG, FEI	CA
MOFFATT, BARBARA	CA
GRIFFITH, MARILYN	CA

INT-CL (IPC): C12 N 15/29; C12 N 15/82; C12 N 15/56; C12 N 15/72; C12 N 15/81; C12 N 9/24; C07 K 14/415; C12 N 5/10; C12 N 1/19; C12 N 1/21; A01 H 5/00; A01 K 67/027; A23 L 3/36; A23 G 9/00
EUR-CL (EPC): C07K014/415; C12N009/24, C12N015/82 , C12N015/82

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 90. Document ID: US 5869092 A

L8: Entry 90 of 128

File: EPAB

Feb 9, 1999

PUB-NO: US005869092A
DOCUMENT-IDENTIFIER: US 5869092 A
TITLE: Prevention of leakage and phase separation during thermotropic phase transition in liposomes and biological cells

PUBN-DATE: February 9, 1999

INVENTOR-INFORMATION:

NAME	COUNTRY
HAYS, LISA M	US
CROWE, JOHN H	US
CROWE, LOIS M	US
FEENEY, ROBERT E	US
OLIVER, ANN E	US

INT-CL (IPC): A61 K 9/127
EUR-CL (EPC): A61K009/127; C07K014/46, C07K014/435

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 91. Document ID: WO 9903931 A1

L8: Entry 91 of 128

File: EPAB

Jan 28, 1999

PUB-NO: WO009903931A1
DOCUMENT-IDENTIFIER: WO 9903931 A1
TITLE: ANTIFREEZE STABILISATION OF AQUEOUS COATINGS USING ANTI-FREEZE PROTEINS

PUBN-DATE: January 28, 1999

INVENTOR-INFORMATION:

NAME
SCHAEFFER, HERMANN

COUNTRY
DE

INT-CL (IPC): C09 D 5/02; C09 D 7/12
EUR-CL (EPC): C09D005/02; C09D175/04

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 92. Document ID: WO 9900493 A1

L8: Entry 92 of 128

File: EPAB

Jan 7, 1999

PUB-NO: WO009900493A1
DOCUMENT-IDENTIFIER: WO 9900493 A1
TITLE: TENEBRIO ANTIFREEZE PROTEINS

PUBN-DATE: January 7, 1999

INVENTOR-INFORMATION:

NAME

COUNTRY

GRAHAM, LAURIE A

CA

LIU, YIH-CHERNG

CA

WALKER, VIRGINIA K

CA

DAVIES, PETER L

CA

INT-CL (IPC): C12 N 15/12; C07 K 14/435; C07 K 16/18; A01 K 67/027; C09 K 5/00; C12 N 15/70; C12 N 1/15; C12 N 5/10; C12 N 1/21; A01 K 67/00
EUR-CL (EPC): C07K014/435

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 93. Document ID: US 5849537 A

L8: Entry 93 of 128

File: EPAB

Dec 15, 1998

PUB-NO: US005849537A
DOCUMENT-IDENTIFIER: US 5849537 A
TITLE: Method of expressing antifreeze proteins in yeast

PUBN-DATE: December 15, 1998

INVENTOR-INFORMATION:

NAME

COUNTRY

TRIPP, MATTHEW

US

LUSK, LANCE

US

RHODES, THOMAS

US

HUIGE, NICK

US

KOT, EDWARD

US

CHICOYE, ETZER

US

BARNEY, MICHAEL C

US

BOWER, PATRICIA A

US

CRONAN, CHARLES L

US

INT-CL (IPC): C12 P 21/02; C12 N 15/81; C12 N 1/19
EUR-CL (EPC): C07K014/46; C12N015/81

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 94. Document ID: WO 9804699 A1

L8: Entry 94 of 128

File: EPAB

Feb 5, 1998

PUB-NO: WO009804699A1

DOCUMENT-IDENTIFIER: WO 9804699 A1

TITLE: FROZEN FOOD PRODUCT CONTAINING HEAT STABLE ANTIFREEZE PROTEIN

PUBN-DATE: February 5, 1998

INVENTOR-INFORMATION:

NAME

COUNTRY

LILLFORD, PETER JOHN

MCARTHUR, ANDREW JOHN

SIDEBOTTOM, CHRISTOPHER MICHAEL

INT-CL (IPC): C12 N 15/29; C07 K 14/415; A23 G 9/02; A23 L 3/36

EUR-CL (EPC): A23G009/02; A23G009/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 95. Document ID: WO 9746674 A1

L8: Entry 95 of 128

File: EPAB

Dec 11, 1997

PUB-NO: WO009746674A1

DOCUMENT-IDENTIFIER: WO 9746674 A1

TITLE: SPRUCE BUDWORM ANTIFREEZE PROTEINS, GENES AND METHODS OF USING SAME

PUBN-DATE: December 11, 1997

INVENTOR-INFORMATION:

NAME

COUNTRY

WALKER, VIRGINIA K

CA

DAVIES, PETER L

CA

RAHAVARD, MITRA

CA

TYSHENKO, MICHAEL G

CA

INT-CL (IPC): C12 N 15/12; C07 K 14/435; C07 K 16/18; A01 K 67/027; C12 N 1/15; C12 N 1/19; C12 N 1/21; A01 H 5/00; C09 K 5/00; A01 N 1/02

EUR-CL (EPC): C07K014/435; C09K005/20, A01N001/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 96. Document ID: US 5633451 A

L8: Entry 96 of 128

File: EPAB

May 27, 1997

PUB-NO: US005633451A

DOCUMENT-IDENTIFIER: US 5633451 A

TITLE: Transgenic plants having a nucleic acid sequence encoding a dendroides antifreeze protein

PUBN-DATE: May 27, 1997

INVENTOR-INFORMATION:

NAME

DUMAN, JOHN G

COUNTRY

US

INT-CL (IPC): A01 H 1/00; A01 H 1/06; A01 H 5/10; A01 G 13/00; C12 N 5/04; C12 N 15/82

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCM	Draw Desc	Image
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☐ 97. Document ID: US 5627051 A

L8: Entry 97 of 128

File: EPAB

May 6, 1997

PUB-NO: US005627051A

DOCUMENT-IDENTIFIER: US 5627051 A

TITLE: Nucleic acid sequences encoding dendroides antifreeze proteins

PUBN-DATE: May 6, 1997

INVENTOR-INFORMATION:

NAME

DUMAN, JOHN G

COUNTRY

US

INT-CL (IPC): C12 P 21/02; C07 H 21/04EUR-CL (EPC): C07K014/435; C12N015/82

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCM	Draw Desc	Image
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☐ 98. Document ID: WO 9621001 A1

L8: Entry 98 of 128

File: EPAB

Jul 11, 1996

PUB-NO: WO009621001A1

DOCUMENT-IDENTIFIER: WO 9621001 A1

TITLE: STABILIZATION OF BLOOD PLATELETS AGAINST LOW TEMPERATURE ACTIVATION

PUBN-DATE: July 11, 1996

INVENTOR-INFORMATION:

NAME

TABLIN, FERN

CROWE, JOHN H

OLIVER, ANN E

HAYS, LISA M

CROWE, LOIS M

FEENEY, ROBERT E

COUNTRY

INT-CL (IPC): C12 N 5/00; A61 K 38/00; A61 K 38/16; C07 K 14/435EUR-CL (EPC): A01N001/02; A61K035/14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCM	Draw Desc	Image
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☐ 99. Document ID: WO 9620695 A1

L8: Entry 99 of 128

File: EPAB

Jul 11, 1996

PUB-NO: WO009620695A1

DOCUMENT-IDENTIFIER: WO 9620695 A1

TITLE: PREVENTION OF LEAKAGE DURING THERMOTROPIC PHASE TRANSITION IN LIPOSOMES AND BIOLOGICAL CELLS

PUBN-DATE: July 11, 1996

INVENTOR-INFORMATION:

NAME

COUNTRY

HAYS, LISA M

CROWE, JOHN H

CROWE, LOIS M

FEENEY, ROBERT E

INT-CL (IPC): A61 K 9/127

EUR-CL (EPC): C07K014/46; A61K009/127, C07K014/435

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 100. Document ID: US 6348569 B1

L8: Entry 100 of 128

File: DWPI

Feb 19, 2002

DERWENT-ACC-NO: 2002-380753

DERWENT-WEEK: 200241

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TITLE: New class of thermal hysteresis, antifreeze proteins isolated and purified from Choristoneura species for decreasing the freezing point of aqueous solution and to protect plants from climatic freezing conditions

INVENTOR: DAVIES, P L; RAHAVARD, M ; TYSHENKO, M G ; WALKER, V K

PRIORITY-DATA: 1997US-0868594 (June 3, 1997), 1996US-0657264 (June 3, 1996), 1999US-0434323 (November 4, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6348569 B1	February 19, 2002		027	C07K014/00

INT-CL (IPC): C07 K 14/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 101. Document ID: AU 200175389 A WO 200194378 A1

L8: Entry 101 of 128

File: DWPI

Dec 17, 2001

DERWENT-ACC-NO: 2002-090137

DERWENT-WEEK: 200225

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TITLE: New cDNA polynucleotide encoding a thermal hysteresis protein which is a Type III anti-freeze protein derived from the Tenebrionoidea Superfamily, useful for

providing antifreeze protection to improve the quality of food

INVENTOR: EASTON, C M; HORWATH, K L ; MYERS, K L

PRIORITY-DATA: 2000US-210446P (June 8, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 200175389 A	December 17, 2001		000	C07K001/00
WO 200194378 A1	December 13, 2001	E	231	C07K001/00

INT-CL (IPC): C07 H 21/02; C07 K 1/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 102. Document ID: AU 200146533 A WO 200183534 A1

L8: Entry 102 of 128

File: DWPI

Nov 12, 2001

DERWENT-ACC-NO: 2002-017739

DERWENT-WEEK: 200222

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TITLE: Recombinantly produced *Nephroma arcticum* antifreeze proteins useful as additives for froze confectionery

INVENTOR: BERRY, M J; DOUCET, C J ; LUNDHEIM, R S ; SEVILLA, M ; WHITEMAN, S

PRIORITY-DATA: 2000GB-0010314 (April 27, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 200146533 A	November 12, 2001		000	C07K014/41
WO 200183534 A1	November 8, 2001	E	039	C07K014/41

INT-CL (IPC): A23 G 9/02; A23 L 3/3526; C07 K 14/41

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 103. Document ID: WO 200142388 A2 AU 200143086 A

L8: Entry 103 of 128

File: DWPI

Jun 14, 2001

DERWENT-ACC-NO: 2001-464980

DERWENT-WEEK: 200150

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TITLE: Compound for inhibiting the formation and growth of ice crystals can be used e.g. in cryogenic preservation of organs and tissues

INVENTOR: FAHY, G M; WOWK, B

PRIORITY-DATA: 1999US-167963P (November 30, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200142388 A2	June 14, 2001	E	029	C09K003/18
AU 200143086 A	June 18, 2001		000	C09K003/18

INT-CL (IPC): C09 K 3/18

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 104. Document ID: CA 2293935 A1

L8: Entry 104 of 128

File: DWPI

Jun 21, 2001

DERWENT-ACC-NO: 2001-442359

DERWENT-WEEK: 200148

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TITLE: Increasing production of cold-regulated proteins, such as antifreeze proteins in plants, involves manipulating growth and harvest conditions or the regulatory pathway involving ethylene in plants

INVENTOR: GRIFFITH, M; YU, X

PRIORITY-DATA: 1999CA-2293935 (December 21, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CA 2293935 A1	June 21, 2001	E	040	A01N057/20

INT-CL (IPC): A01 N 35/06; A01 N 37/42; A01 N 53/00; A01 N 57/20; C12 N 5/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 105. Document ID: BR 200008889 A WO 200053029 A1 AU 200032848 A EP 1158864 A1

L8: Entry 105 of 128

File: DWPI

Dec 26, 2001

DERWENT-ACC-NO: 2000-594241

DERWENT-WEEK: 200206

COPYRIGHT 2002 DERWENT INFORMATION LTD

TITLE: Ice confection product used in ice cream comprises an antifreeze protein

INVENTOR: DANIEL, A M; OLDROYD, J R ; DANIEL, A

PRIORITY-DATA: 1999EP-0305842 (July 23, 1999), 1999GB-0005524 (March 10, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
BR 200008889 A	December 26, 2001		000	A23G009/02
WO 200053029 A1	September 14, 2000	E	074	A23G009/02
AU 200032848 A	September 28, 2000		000	A23G009/02
EP 1158864 A1	December 5, 2001	E	000	A23G009/02

INT-CL (IPC): A23 G 9/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 106. Document ID: BR 200008888 A WO 200053028 A1 AU 200039602 A EP 1158866 A1

L8: Entry 106 of 128

File: DWPI

Dec 18, 2001

DERWENT-ACC-NO: 2000-594240

DERWENT-WEEK: 200209

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TITLE: Ice confection used in ice cream comprises an antifreeze protein

INVENTOR: DANIEL, A M; LACY, I ; OLDROYD, J R ; DANIEL, A

PRIORITY-DATA: 1999EP-0305842 (July 23, 1999), 1999GB-0005524 (March 10, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
BR 200008888 A	December 18, 2001		000	A23G009/02
WO 200053028 A1	September 14, 2000	E	036	A23G009/02
AU 200039602 A	September 28, 2000		000	A23G009/02
EP 1158866 A1	December 5, 2001	E	000	A23G009/02

INT-CL (IPC): A23 G 9/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 107. Document ID: BR 200008887 A WO 200053027 A1 AU 200029172 A EP 1158862 A1

L8: Entry 107 of 128

File: DWPI

Dec 18, 2001

DERWENT-ACC-NO: 2000-594239

DERWENT-WEEK: 200209

COPYRIGHT 2002 DERWENT INFORMATION LTD

TITLE: Water ice comprises an antifreeze protein, a stabilizer and a protein based aerating agent

INVENTOR: DANIEL, A M; LACY, I ; OLDROYD, J R ; DANIEL, A

PRIORITY-DATA: 1999EP-0305842 (July 23, 1999), 1999GB-0005524 (March 10, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
BR 200008887 A	December 18, 2001		000	A23G009/02
WO 200053027 A1	September 14, 2000	E	041	A23G009/02
AU 200029172 A	September 28, 2000		000	A23G009/02
EP 1158862 A1	December 5, 2001	E	000	A23G009/02

INT-CL (IPC): A23 G 9/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 108. Document ID: BR 200008886 A WO 200053026 A1 AU 200032847 A EP 1158863 A1

L8: Entry 108 of 128

File: DWPI

Dec 18, 2001

DERWENT-ACC-NO: 2000-594238

DERWENT-WEEK: 200209

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TITLE: Ice confection for use as e.g. ice cream comprises an antifreeze protein with specified apparent modulus and strength

INVENTOR: DANIEL, A M; HODDLE, A ; JONES, A ; OLDROYD, J R ; SINGLETON, S ; DANIEL, A

PRIORITY-DATA: 1999EP-0305842 (July 23, 1999), 1999GB-0005524 (March 10, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
BR 200008886 A	December 18, 2001		000	A23G009/02
WO 200053026 A1	September 14, 2000	E	074	A23G009/02
AU 200032847 A	September 28, 2000		000	A23G009/02
EP 1158863 A1	December 5, 2001	E	000	A23G009/02

INT-CL (IPC): A23 G 9/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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☐ 109. Document ID: BR 200008885 A WO 200053025 A1 AU 200035535 A EP 1158865 A1

L8: Entry 109 of 128

File: DWPI

Dec 26, 2001

DERWENT-ACC-NO: 2000-594237

DERWENT-WEEK: 200206

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TITLE: Unaerated ice confection useful for making frozen confectionery products e.g. crisps comprises an antifreeze protein

INVENTOR: DANIEL, A M; FENN, R A ; OLDROYD, J R ; DANIEL, A

PRIORITY-DATA: 1999EP-0305842 (July 23, 1999), 1999GB-0005524 (March 10, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
BR 200008885 A	December 26, 2001		000	A23G009/02
WO 200053025 A1	September 14, 2000	E	077	A23G009/02
AU 200035535 A	September 28, 2000		000	A23G009/02
EP 1158865 A1	December 5, 2001	E	000	A23G009/02

INT-CL (IPC): A23 G 9/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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☐ 110. Document ID: US 6008016 A

L8: Entry 110 of 128

File: DWPI

Dec 28, 1999

DERWENT-ACC-NO: 2000-086220

DERWENT-WEEK: 200241

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TITLE: Isolated nucleic acids encoding thermal hysteresis antifreeze proteins

INVENTOR: DAVIES, P L; RAHAVARD, M ; TYSHENKO, M G ; WALKER, V K

PRIORITY-DATA: 1997US-0868594 (June 3, 1997), 1996US-0657264 (June 3, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6008016 A	December 28, 1999		027	C07H021/04

INT-CL (IPC): C07 H 21/04; C12 P 21/06

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWAC	Draw Desc	Image
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☐ 111. Document ID: MX 2000005140 A1 WO 9937673 A2 AU 9926148 A BR 9814760 A EP 1049713 A2 CZ 200002693 A3 SK 200001093 A3 CN 1284085 A HU 200100410 A2 JP 2002508303 W

L8: Entry 111 of 128

File: DWPI

May 1, 2001

DERWENT-ACC-NO: 1999-444595

DERWENT-WEEK: 200227

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TITLE: New isolated antifreeze protein obtained from Lichen, used for the preparation of food products, particularly frozen confectionery products

INVENTOR: BYASS, L J; SIDEBOTTOM, C M ; SMALLWOOD, M F

PRIORITY-DATA: 1998GB-0001420 (January 22, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
MX 2000005140 A1	May 1, 2001		000	A23G009/02
WO 9937673 A2	July 29, 1999	E	019	C07K014/41
AU 9926148 A	August 9, 1999		000	C07K014/41
BR 9814760 A	October 17, 2000		000	C07K014/41
EP 1049713 A2	November 8, 2000	E	000	C07K014/41
CZ 200002693 A3	December 13, 2000		000	C07K014/41
SK 200001093 A3	January 18, 2001		000	C07K014/41
CN 1284085 A	February 14, 2001		000	C07K014/41
HU 200100410 A2	June 28, 2001		000	C07K014/41
JP 2002508303 W	March 19, 2002		019	C07K014/41

INT-CL (IPC): A23 G 9/02; C07 K 14/41; C12 N 15/09; C12 P 21/02; C12 P 21/02; C12 R 1:645

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWAC	Draw Desc	Image
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☐ 112. Document ID: US 5928877 A

L8: Entry 112 of 128

File: DWPI

Jul 27, 1999

DERWENT-ACC-NO: 1999-429496

DERWENT-WEEK: 199936

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TITLE: Detecting the presence of antifreeze proteins in samples

INVENTOR: CRONAN, C L; LUSK, L

PRIORITY-DATA: 1992US-0917216 (July 20, 1992), 1989US-0409217 (September 19, 1989),
1990US-0486333 (February 28, 1990), 1994US-0180524 (January 12, 1994),
1997US-0975166 (November 20, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5928877 A	July 27, 1999		024	C12Q001/54

INT-CL (IPC): C12 Q 1/54

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 113. Document ID: CN 1273604 A WO 9906565 A2 AU 9886206 A EP 1002101 A2

L8: Entry 113 of 128

File: DWPI

Nov 15, 2000

DERWENT-ACC-NO: 1999-153795

DERWENT-WEEK: 200115

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TITLE: New nucleic acid encoding antifreeze polypeptides from plants - particularly with chitinase activity, used to impart frost, and pathogen, resistant to plants, for preservation of foods, cells etc. and for treating tumours

INVENTOR: GRIFFITH, M; HEW, C ; MOFFATT, B ; XIONG, F

PRIORITY-DATA: 1997US-0903872 (July 31, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CN 1273604 A	November 15, 2000		000	C12N015/56
WO 9906565 A2	February 11, 1999	E	117	C12N015/29
AU 9886206 A	February 22, 1999		000	C12N015/29
EP 1002101 A2	May 24, 2000	E	000	C12N015/56

INT-CL (IPC): A01 H 5/00; A01 K 67/027; A23 G 9/00; A23 L 3/36; C07 K 14/415; C12 N 1/19; C12 N 1/21; C12 N 5/10; C12 N 9/24; C12 N 15/29; C12 N 15/56; C12 N 15/72; C12 N 15/81; C12 N 15/82

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 114. Document ID: JP 2001500924 W DE 19730280 A1 WO 9903931 A1 EP 925333 A1
DE 19730280 C2

L8: Entry 114 of 128

File: DWPI

Jan 23, 2001

DERWENT-ACC-NO: 1999-096802

DERWENT-WEEK: 200107

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TITLE: Aqueous coating agent(s) containing an antifreeze protein - gives enhanced frost protection without detrimental effect on other coating properties

INVENTOR: SCHAEFFER, H

PRIORITY-DATA: 1997DE-1030280 (July 15, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2001500924 W	January 23, 2001		017	C09D201/00
DE 19730280 A1	January 21, 1999	G	010	C09D007/12
WO 9903931 A1	January 28, 1999	G	000	C09D005/02
EP 925333 A1	June 30, 1999	G	000	C09D005/02
DE 19730280 C2	May 25, 2000		000	C09D007/12

INT-CL (IPC): C09 D 5/02; C09 D 5/14; C09 D 7/12; C09 D 189/00; C09 D 201/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 115. Document ID: AU 747466 B WO 9900493 A1 AU 9880970 A EP 990032 A1 JP 2002507889 W US 6392024 B1

L8: Entry 115 of 128

File: DWPI

May 16, 2002

DERWENT-ACC-NO: 1999-095739

DERWENT-WEEK: 200244

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TITLE: New nucleic acid encoding antifreeze proteins of *Tenebrio molitor* - used to improve low temperature tolerance of fish, plants etc., and quality of foods or biological materials during frozen storage

INVENTOR: DAVIES, P L; GRAHAM, L A ; LIOU, Y ; WALKER, V K

PRIORITY-DATA: 1997US-0882907 (June 26, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 747466 B	May 16, 2002		000	C12N015/12
WO 9900493 A1	January 7, 1999	E	088	C12N015/12
AU 9880970 A	January 19, 1999		000	C12N015/12
EP 990032 A1	April 5, 2000	E	000	C12N015/12
JP 2002507889 W	March 12, 2002		092	C12N015/09
US 6392024 B1	May 21, 2002		000	C07H021/04

INT-CL (IPC): A01 H 5/00; A01 K 67/00; A01 K 67/027; A01 K 67/033; C07 H 21/04; C07 K 14/435; C07 K 14/46; C07 K 16/18; C09 K 5/00; C09 K 5/08; C12 N 1/14; C12 N 1/15; C12 N 1/19; C12 N 1/20; C12 N 1/21; C12 N 5/10; C12 N 15/09; C12 N 15/12; C12 N 15/70; C12 Q 1/68

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 116. Document ID: US 5849537 A

L8: Entry 116 of 128

File: DWPI

Dec 15, 1998

DERWENT-ACC-NO: 1999-094410

DERWENT-WEEK: 199936

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TITLE: Vector for expressing antifreeze protein in yeast - for producing variant of *Pseudopleuronectes americanus* antifreeze protein

INVENTOR: BARNEY, M C ; BOWER, P A ; CHICOYE, E ; CRONAN, C L ; HUIGE, N ; KOT, E ;
LUSK, L ; RHODES, T ; TRIPP, M

PRIORITY-DATA: 1992US-0917216 (July 20, 1992), 1989US-0409217 (September 19, 1989),
1990US-0486333 (February 28, 1990), 1994US-0180524 (January 12, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5849537 A	December 15, 1998		025	C12P021/02

INT-CL (IPC): C12 N 1/19; C12 N 15/81; C12 P 21/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWAC	Draw Desc	Image
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☐ 117. Document ID: GB 2315753 A DE 19732136 A1 FR 2751513 A1 WO 9804148 A2
AU 9736213 A ZA 9706473 A TW 349953 A SK 9900090 A3 CZ 9900254 A3 BR 9710589 A
DE 19732136 C2 EP 959689 A2 CN 1231580 A HU 9903255 A2 AU 719506 B AU 200025212 A
US 6096867 A MX 9900955 A1 JP 2000515754 W AU 728138 B KR 2000029561 A GB
2315753 B IT 1293770 B IL 128029 A

L8: Entry 117 of 128

File: DWPI

Feb 11, 1998

DERWENT-ACC-NO: 1998-089628

DERWENT-WEEK: 200210

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TITLE: Frozen confectionery products e.g. ice cream - contain at one antifreeze
protein derived from plants e.g. Juncus squarrosus or Geranium

INVENTOR: BYASS, L J ; DARLING, D F ; DOUCHET, C J ; FENN, R A ; LILLFORD, P J ;
MCARTHUR, A J ; NEEDHAM, D ; SIDEBOTTOM, C ; SMALLWOOD, K ; SMALLWOOD, M F ; DOUCET,
C J ; BYASS, J ; DARLING, F ; SIDEBOTTOM, C M

PRIORITY-DATA: 1997EP-0301733 (March 14, 1997), 1996EP-0305497 (July 26, 1996),
1996EP-0305499 (July 26, 1996), 1996EP-0308362 (November 19, 1996), 1997EP-0301719
(March 14, 1997), 2000AU-0025212 (March 31, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
GB 2315753 A	February 11, 1998		045	C07K014/415
DE 19732136 A1	January 29, 1998		018	A23G009/00
FR 2751513 A1	January 30, 1998		040	A23G009/02
WO 9804148 A2	February 5, 1998	E	042	A23G009/02
AU 9736213 A	February 20, 1998		000	A23G009/02
ZA 9706473 A	March 31, 1999		045	A23G000/00
TW 349953 A	January 11, 1999		000	C07K014/415
SK 9900090 A3	June 11, 1999		000	A23G009/02
CZ 9900254 A3	July 14, 1999		000	A23G009/02
BR 9710589 A	August 17, 1999		000	A23G009/02
DE 19732136 C2	December 2, 1999		000	A23G009/00
EP 959689 A2	December 1, 1999	E	000	A23G009/02
CN 1231580 A	October 13, 1999		000	A23G009/02
HU 9903255 A2	January 28, 2000		000	A23G009/02
AU 719506 B	May 11, 2000		000	A23G009/02
AU 200025212 A	June 8, 2000		000	A23G009/02
US 6096867 A	August 1, 2000		000	C07K001/00
MX 9900955 A1	May 1, 1999		000	A23G009/02
JP 2000515754 W	November 28, 2000		040	A23G009/02
AU 728138 B	January 4, 2001		000	A23G009/02
KR 2000029561 A	May 25, 2000		000	A23G009/02
GB 2315753 B	June 13, 2001		000	C07K014/415
IT 1293770 B	March 10, 1999		000	A23G009/00
IL 128029 A	September 13, 2001		000	A23G009/02

, US 6096867 A INT-CL (IPC): A23 B 7/10; A23 G 0/00; A23 G 9/00; A23 G 9/02; A23 L 3/36; C07 K 1/00; C07 K 14/00; C07 K 14/415; C12 N 15/29

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 118. Document ID: SK 282279 B6 GB 2315752 A FR 2751657 A1 WO 9804699 A1 DE 19732135 A1 AU 9734437 A DE 19732135 C2 EP 918863 A1 CZ 9900252 A3 SK 9900089 A3 CN 1226284 A BR 9710564 A HU 9903164 A2 US 6090917 A JP 2000515751 W US 6156880 A US 6162789 A AU 726699 B KR 2000029554 A MX 9900952 A1 GB 2315752 B ZA 9706477 A IT 1293767 B

L8: Entry 118 of 128

File: DWPI

Jan 7, 2002

DERWENT-ACC-NO: 1998-089627

DERWENT-WEEK: 200213

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TITLE: Anti-freeze proteins for use in frozen confectionery food products - have heat thermal stability shown by no significant reduction in ice-recrystallisation inhibition properties after specific heat treatments

INVENTOR: MCARTHUR, A J; SIDEBOTTOM, C M ; LILLFORD, P J ; WILDING, P ; SIDEBOTTOM, C

PRIORITY-DATA: 1996EP-0305497 (July 26, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SK 282279 B6	January 7, 2002		000	C12N015/29
GB 2315752 A	February 11, 1998		033	C07K014/415
FR 2751657 A1	January 30, 1998		029	C07K007/04
WO 9804699 A1	February 5, 1998	E	033	C12N015/29
DE 19732135 A1	February 26, 1998		011	C07K004/10
AU 9734437 A	February 20, 1998		000	C12N015/29
DE 19732135 C2	July 23, 1998		000	C07K004/10
EP 918863 A1	June 2, 1999	E	000	C12N015/29
CZ 9900252 A3	July 14, 1999		000	C12N015/29
SK 9900089 A3	July 12, 1999		000	C12N015/29
CN 1226284 A	August 18, 1999		000	C12N015/29
BR 9710564 A	August 17, 1999		000	C12N015/29
HU 9903164 A2	January 28, 2000		000	C12N015/29
US 6090917 A	July 18, 2000		000	A61K038/00
JP 2000515751 W	November 28, 2000		029	C12N015/09
US 6156880 A	December 5, 2000		000	C12P021/02
US 6162789 A	December 19, 2000		000	A61K038/00
AU 726699 B	November 16, 2000		000	C12N015/29
KR 2000029554 A	May 25, 2000		000	C12N015/29
MX 9900952 A1	January 1, 2000		000	C12N015/29
GB 2315752 B	June 13, 2001		000	C07K014/415
ZA 9706477 A	March 31, 1999		033	C12N000/00
IT 1293767 B	March 10, 1999		000	A23G009/00

6156880 A , US 6162789 A INT-CL (IPC): A23C 3/00; A23G 1/22; A23G 3/00; A23G 9/00; A23G 9/02; A23G 9/04; A23J 1/00; A23L 3/36; A23L 3/37; A61K 38/00; A61K 38/02; C07K 1/14; C07K 4/10; C07K 5/00; C07K 7/00; C07K 7/04; C07K 13/00; C07K 14/415; C07K 15/00; C12N 0/00; C12N 15/09; C12N 15/29; C12N 15/63; C12N 15/82; C12P 21/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 119. Document ID: GB 2315662 A DE 19732132 A1 FR 2751514 A1 ZA 9706472 A IT 1293769 B

L8: Entry 119 of 128

File: DWPI

Feb 11, 1998

DERWENT-ACC-NO: 1998-089552

DERWENT-WEEK: 200208

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TITLE: Production of frozen confectionery and ice-cream - using antifreeze peptides to obtain rounded ice crystals with desirable properties

INVENTOR: FENN, R A; NEEDHAM, D ; SMALLWOOD, K

PRIORITY-DATA: 1996EP-0305499 (July 26, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
GB 2315662 A	February 11, 1998		024	A23G009/02
DE 19732132 A1	January 29, 1998		000	A23G009/00
FR 2751514 A1	January 30, 1998		022	A23G009/02
ZA 9706472 A	March 31, 1999		024	A23G000/00
IT 1293769 B	March 10, 1999		000	A23G009/00

INT-CL (IPC): A23G 0/00; A23G 9/00; A23G 9/02; A23G 9/04; A23L 3/36

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMNC	Draw Desc	Image
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☐ 120. Document ID: WO 9746674 A1 AU 9728838 A EP 939808 A1 CN 1221450 A MX 9810175 A1 AU 726696 B KR 2000016268 A JP 2001505404 W

L8: Entry 120 of 128

File: DWPI

Dec 11, 1997

DERWENT-ACC-NO: 1998-042182

DERWENT-WEEK: 200241

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TITLE: Spruce budworm antifreeze protein - useful to lower freezing point of aqueous solutions in biological and non-organic systems

INVENTOR: DAVIES, P L; RAHAVARD, M ; TYSHENKO, M G ; WALKER, V K

PRIORITY-DATA: 1996US-0657264 (June 3, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9746674 A1	December 11, 1997	E	073	C12N015/12
AU 9728838 A	January 5, 1998		000	C12N015/12
EP 939808 A1	September 8, 1999	E	000	C12N015/12
CN 1221450 A	June 30, 1999		000	C12N015/12
MX 9810175 A1	June 1, 1999		000	C12N015/12
AU 726696 B	November 16, 2000		000	C12N015/12
KR 2000016268 A	March 25, 2000		000	C12N015/12
JP 2001505404 W	April 24, 2001		075	C12N015/09

INT-CL (IPC): A01 H 5/00; A01 K 67/027; A01 N 1/02; C07 K 14/435; C07 K 16/18; C09 K 5/00; C12 N 1/15; C12 N 1/19; C12 N 1/21; C12 N 1/19; C12 N 15/09; C12 N 15/12; C12 N 1/19; C12 R 1/72; C12 R 1/85; C12 R 1/865; C12 R 1/87; C12 R 1/88; C12 N 1/21; C12 R 1/01; C12 R 1/19; C12 R 1/225; C12 R 1/23; C12 R 1/46

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMNC	Draw Desc	Clip Img	Image
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☐ 121. Document ID: WO 9640973 A1 US 5633451 A AU 9659819 A US 5627051 A

L8: Entry 121 of 128

File: DWPI

Dec 19, 1996

DERWENT-ACC-NO: 1997-052352

DERWENT-WEEK: 199705

COPYRIGHT 2002 DERWENT INFORMATION LTD

TITLE: DNA encoding Dendroides sp. thermal hysteresis protein - produces protein having antifreeze properties, useful to protect plant cells, seeds or plants from frost damage

INVENTOR: DUMAN, J G

PRIORITY-DATA: 1995US-0485359 (June 7, 1995), 1995US-0569594 (December 8, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9640973 A1	December 19, 1996	E	046	C12P021/02
US 5633451 A	May 27, 1997		016	A01H001/00
AU 9659819 A	December 30, 1996		000	C12P021/02
US 5627051 A	May 6, 1997		017	C12P021/02

INT-CL (IPC): A01 G 13/00; A01 H 1/00; A01 H 1/06; A01 H 5/10; C07 H 21/04; C12 N 5/04; C12 N 5/14; C12 N 15/82; C12 P 21/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 122. Document ID: JP 08075328 A

L8: Entry 122 of 128

File: DWPI

Mar 19, 1996

DERWENT-ACC-NO: 1996-207187

DERWENT-WEEK: 199621

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TITLE: Ice slurry transportation method using antifreeze protein - involves transporting ice slurry to fixed place using piping and pump

PRIORITY-DATA: 1994JP-0232303 (September 1, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 08075328 A	March 19, 1996		003	F25C001/00

INT-CL (IPC): F25 C 1/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Clip Img	Image
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☐ 123. Document ID: US 5455164 A

L8: Entry 123 of 128

File: DWPI

Oct 3, 1995

DERWENT-ACC-NO: 1995-350775

DERWENT-WEEK: 199545

COPYRIGHT 2002 DERWENT INFORMATION LTD

TITLE: Immortalised ruminant mammary epithelial cell lines - prepd. from goat or sheep cells, having normal physiological responses of such epithelial cells

INVENTOR: TURNER, J D

PRIORITY-DATA: 1993US-0056028 (April 30, 1993), 1989US-0431294 (November 3, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5455164 A	October 3, 1995		012	C12N005/00

INT-CL (IPC): C12 N 5/00; C12 N 15/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 124. Document ID: KR 9401266 B1

L8: Entry 124 of 128

File: DWPI

Feb 18, 1994

DERWENT-ACC-NO: 1995-012578

DERWENT-WEEK: 199502

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TITLE: Mfr. of plant tissue expressing antifreeze protein - involves Agrobacteriu
m-mediate transformation of tobacco tissue, analysing expression of protein gene by
hybridisation and using electrophoresis to determine protein

INVENTOR: JANG, S; KIM, D ; NAM, H ; PARK, Y

PRIORITY-DATA: 1991KR-0013970 (August 13, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 9401266 B1	February 18, 1994		000	C12N015/82

INT-CL (IPC): C12N 15/29; C12N 15/82

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 125. Document ID: JP 3293622 B2 WO 9216618 A1 AU 9213703 A EP 578653 A1 NO 9303276 A JP 06505870 W AU 669844 B US 5545808 A EP 578653 B1 DE 69231947 E ES 2163398 T3 CA 2367129 A1

L8: Entry 125 of 128

File: DWPI

Jun 17, 2002

DERWENT-ACC-NO: 1992-349205

DERWENT-WEEK: 200242

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TITLE: Gene construct for prodn. of transgenic fish - contains antifreeze protein
promoter

INVENTOR: FLETCHER, G L; HEW, C L

PRIORITY-DATA: 1991US-0669765 (March 15, 1991), 1994US-0212375 (March 10, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 3293622 B2	June 17, 2002		037	A01K067/027
WO 9216618 A1	October 1, 1992	E	068	C12N015/00
AU 9213703 A	October 21, 1992		000	C12N015/00
EP 578653 A1	January 19, 1994	E	000	C12N015/00
NO 9303276 A	November 11, 1993		000	C12N000/00
JP 06505870 W	July 7, 1994		018	C12N015/11
AU 669844 B	June 27, 1996		000	C12N015/12
US 5545808 A	August 13, 1996		018	C12N005/00
EP 578653 B1	July 18, 2001	E	000	C12N015/00
DE 69231947 E	August 23, 2001		000	C12N015/00
ES 2163398 T3	February 1, 2002		000	C12N015/00
CA 2367129 A1	October 1, 1992	E	000	A01K067/027

INT-CL (IPC): A01 K 61/00; A01 K 67/027; C07 K 14/00; C07 K 15/00; C12 N 0/00; C12 N 5/00; C12 N 15/00; C12 N 15/09; C12 N 15/11; C12 N 15/12; C12 N 15/18; C12 N 15/85; C12 P 21/06; C12 Q 1/68

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 126. Document ID: WO 9212722 A1 AU 9215670 A

L8: Entry 126 of 128

File: DWPI

Aug 6, 1992

DERWENT-ACC-NO: 1992-284413

DERWENT-WEEK: 199234

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TITLE: Compsn. contg. thermal hysteresis protein - used to protect and preserve biological materials in non-physiological temps. and conditions

INVENTOR: DEVRIES, A L; RUBINSKY, B

PRIORITY-DATA: 1991WO-US00351 (January 17, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9212722 A1	August 6, 1992	E	126	A61K037/00
AU 9215670 A	August 27, 1992		000	A61K037/00

INT-CL (IPC): A61K 37/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 127. Document ID: CA 2040566 A

L8: Entry 127 of 128

File: DWPI

Oct 18, 1991

DERWENT-ACC-NO: 1992-008003

DERWENT-WEEK: 199202

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TITLE: Biosynthetic prodn. of e.g. fish antifreeze protein - in transgenic Drosophila, by fusing gene enhancers to proteinaceous gene, cloning obtd. hybrid and micro-injecting into germ cell

INVENTOR: DAVIES, P L; RANCOURT, D E

PRIORITY-DATA: 1990US-0509838 (April 17, 1990)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CA 2040566 A	October 18, 1991		000	

INT-CL (IPC): C12N 15/12; C12P 21/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 128. Document ID: WO 9009447 A CA 2009917 A EP 423264 A JP 04500459 W

L8: Entry 128 of 128

File: DWPI

Aug 23, 1990

DERWENT-ACC-NO: 1990-275136

DERWENT-WEEK: 200217

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TITLE: Cold shock protein from E. coli and gene - used for protecting microbiological and plant cells from effects of low temps.

INVENTOR: GOLDSTEIN, J; INOUE, M ; POLLITT, S N

PRIORITY-DATA: 1989US-0310332 (February 13, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9009447 A	August 23, 1990		035	
CA 2009917 A	August 13, 1990		000	
EP 423264 A	April 24, 1991		000	
JP 04500459 W	January 30, 1992		015	

INT-CL (IPC): C07K 7/10; C07K 13/00; C12N 1/21; C12N 15/70; C12P 21/02; C12R 1/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Term	Documents
ANTIFREEZE.DWPI,TDBD,EPAB,USPT,PGPB.	6021
ANTIFREEZES.DWPI,TDBD,EPAB,USPT,PGPB.	469
PROTEIN.DWPI,TDBD,EPAB,USPT,PGPB.	221056
PROTEINS.DWPI,TDBD,EPAB,USPT,PGPB.	140121
(ANTIFREEZE ADJ PROTEIN).USPT,PGPB,EPAB,DWPI,TDBD.	128
(ANTIFREEZE PROTEIN).USPT,PGPB,EPAB,DWPI,TDBD.	128

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L11: Entry 1 of 12

File: PGPB

Mar 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020038470
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020038470 A1

TITLE: Non-food crop plant bioreactor

PUBLICATION-DATE: March 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brandle, Jim	London		CA	
Davies, Peter L.	Kingston		CA	
Kenward, Kimberley D.	St. Vegreville		CA	
Menassa, Rima	London		CA	
Jevnikar, Anthony M.	London		CA	
Delovitch, Terry	London		CA	

US-CL-CURRENT: [800/278](#); [514/12](#), [530/350](#)[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KIMC](#) | [Draw Desc](#) | [Image](#)☐ 2. Document ID: US 20020013955 A1

L11: Entry 2 of 12

File: PGPB

Jan 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020013955
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020013955 A1

TITLE: PRODUCTION OF RECOMBINANT PROTEIN IN TRANSGENIC FISH

PUBLICATION-DATE: January 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
OGDEN, SHARON	ALAHAU	FL	US	
SCHUSTER, SHELDON M.	GAINESVILLE	FL	US	

US-CL-CURRENT: [800/20](#); [800/4](#)[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KIMC](#) | [Draw Desc](#) | [Image](#)☐ 3. Document ID: US 6406855 B1

L11: Entry 3 of 12

File: USPT

US-PAT-NO: 6406855

DOCUMENT-IDENTIFIER: US 6406855 B1

TITLE: Methods and compositions for polypeptide engineering

DATE-ISSUED: June 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Patten; Phillip A.	Mountain View	CA		
Stemmer; Willem P. C.	Los Gatos	CA		

US-CL-CURRENT: 435/6; 424/85.2, 424/85.4, 435/196, 435/440, 435/69.1, 435/69.51,
435/69.52, 435/91.1, 436/501, 530/350, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 4. Document ID: US 6399861 B1

L11: Entry 4 of 12

File: USPT

US-PAT-NO: 6399861

DOCUMENT-IDENTIFIER: US 6399861 B1

TITLE: Methods and compositions for the production of stably transformed, fertile monocot plants and cells thereof

DATE-ISSUED: June 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anderson; Paul C.	Stonington	CT		
Flick; Christopher E.	Old Saybrook	CT		
Gordon-Kamm; William J.	Stonington	CT		
Kausch; Albert P.	Stonington	CT		
Mackey; Catherine J.	Old Lyme	CT		
Orozco; Emil M.	Groton	CT		
Orr; Peter	Pawcatuck	CT		
Stephens; Michael A.	East Lyme	CT		
Walters; David A.	Groton	CT		
Walters; Donald S.	Mystic	CT		

US-CL-CURRENT: 800/320.1; 800/275, 800/288, 800/293, 800/301, 800/302, 800/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KNOW	Draw Desc	Image
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☐ 5. Document ID: US 6329574 B1

L11: Entry 5 of 12

File: USPT

US-PAT-NO: 6329574

DOCUMENT-IDENTIFIER: US 6329574 B1

TITLE: High lysine fertile transgenic corn plants

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lundquist; Ronald C.	Minnetonka	MN		
Walters; David A.	Groton	CT		
Kirihara; Julie A.	Bloomington	MN		

US-CL-CURRENT: 800/300.1; 800/278, 800/287, 800/288, 800/293, 800/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 6. Document ID: US 6025545 A

L11: Entry 6 of 12

File: USPT

US-PAT-NO: 6025545

DOCUMENT-IDENTIFIER: US 6025545 A

TITLE: Methods and compositions for the production of stably transformed, fertile monocot plants and cells thereof

DATE-ISSUED: February 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lundquist; Ronald C.	Minnetonka	MN		
Walters; David A.	Groton	CT		
Spencer; T. Michael	Mystic	CT		
Mackey; Catherine J.	Old Lyme	CT		

US-CL-CURRENT: 800/300.1; 536/23.1, 536/24.1, 800/298, 800/300, 800/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 7. Document ID: US 5990390 A

L11: Entry 7 of 12

File: USPT

US-PAT-NO: 5990390

DOCUMENT-IDENTIFIER: US 5990390 A

TITLE: Methods and compositions for the production of stably transformed, fertile monocot plants and cells thereof

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lundquist; Ronald C.	Minnetonka	MN		
Walters; David A.	Groton	CT		
Kirihara; Julie A.	Bloomington	MN		

US-CL-CURRENT: 800/302; 536/23.71, 800/265, 800/268, 800/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 8. Document ID: US 5932225 A

L11: Entry 8 of 12

File: USPT

US-PAT-NO: 5932225

DOCUMENT-IDENTIFIER: US 5932225 A

TITLE: Vaccine comprising eimeria spp. gametocyte antigen

DATE-ISSUED: August 3, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wallach; Michael	Jerusalem			IL
Pugatsch; Thea	Maaleh Adumin			IL
Mencher; David	Jerusalem			IL

US-CL-CURRENT: 424/267.1; 424/184.1, 424/185.1, 424/191.1, 424/271.1, 424/276.1,
435/69.1, 435/69.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 9. Document ID: US 5716834 A

L11: Entry 9 of 12

File: USPT

US-PAT-NO: 5716834

DOCUMENT-IDENTIFIER: US 5716834 A

TITLE: Cloned factor C cDNA of the Singapore horseshoe crab, Carinoscorpius rotundicauda and purification of factor C proenzyme

DATE-ISSUED: February 10, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ding; Jeak Ling	Singapore			SG
Ho; Bow	Singapore			SG

US-CL-CURRENT: 435/219; 435/252.33, 435/254.11, 435/320.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 10. Document ID: US 5712144 A

L11: Entry 10 of 12

File: USPT

US-PAT-NO: 5712144

DOCUMENT-IDENTIFIER: US 5712144 A

TITLE: Cloned factor C cDNA of the Singapore Horseshoe Crab, Carinoscorpius rotundicauda and purification of Factor C proenzyme

DATE-ISSUED: January 27, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ding; Jeak Ling	Singapore			SG
Ho; Bow	Singapore			SG

US-CL-CURRENT: 435/219; 424/522, 424/94.63, 424/94.64, 435/226

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 11. Document ID: US 5496550 A

L11: Entry 11 of 12

File: USPT

US-PAT-NO: 5496550

DOCUMENT-IDENTIFIER: US 5496550 A

TITLE: Method of reducing the output of Eimeria oocysts from a newborn chick

DATE-ISSUED: March 5, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wallach; Michael	Jerusalem			IL
Pugatsch; Thea	Maaleh Adumin			IL
Mencher; David	Jerusalem			IL

US-CL-CURRENT: 424/184.1; 424/267.1, 424/271.1, 424/276.1, 435/69.1, 435/69.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 12. Document ID: US 5118792 A

L11: Entry 12 of 12

File: USPT

US-PAT-NO: 5118792

DOCUMENT-IDENTIFIER: US 5118792 A

TITLE: Ice crystal growth suppression polypeptides and method of making

DATE-ISSUED: June 2, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Warren; Gareth J.	San Francisco	CA		
Mueller; Gunhild M.	San Francisco	CA		
McKown; Robert L.	Albany	CA		

US-CL-CURRENT: 530/350; 426/321, 426/656, 426/657, 435/69.1, 435/69.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Term	Documents
ANTIFREEZE.DWPI,TDBD,EPAB,USPT,PGPB.	6021
ANTIFREEZES.DWPI,TDBD,EPAB,USPT,PGPB.	469
PROTEIN.DWPI,TDBD,EPAB,USPT,PGPB.	221056
PROTEINS.DWPI,TDBD,EPAB,USPT,PGPB.	140121
GLYCOSYLATION.DWPI,TDBD,EPAB,USPT,PGPB.	13105
GLYCOSYLATIONS.DWPI,TDBD,EPAB,USPT,PGPB.	602
((ANTIFREEZE ADJ PROTEIN) AND GLYCOSYLATION).USPT,PGPB,EPAB,DWPI,TDBD.	12
(ANTIFREEZE PROTEIN AND GLYCOSYLATION).USPT,PGPB,EPAB,DWPI,TDBD.	12

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L2: Entry 1 of 12

File: PGPB

Mar 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020038470

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020038470 A1

TITLE: Non-food crop plant bioreactor

PUBLICATION-DATE: March 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brandle, Jim	London		CA	
Davies, Peter L.	Kingston		CA	
Kenward, Kimberley D.	St. Vegreville		CA	
Menassa, Rima	London		CA	
Jevnikar, Anthony M.	London		CA	
Delovitch, Terry	London		CA	

US-CL-CURRENT: [800/278](#); [514/12](#), [530/350](#)[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KIMC](#) | [Draw Desc](#) | [Image](#)☐ 2. Document ID: US 20020013955 A1

L2: Entry 2 of 12

File: PGPB

Jan 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020013955

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020013955 A1

TITLE: PRODUCTION OF RECOMBINANT PROTEIN IN TRANSGENIC FISH

PUBLICATION-DATE: January 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
OGDEN, SHARON	ALAHAU	FL	US	
SCHUSTER, SHELDON M.	GAINESVILLE	FL	US	

US-CL-CURRENT: [800/20](#); [800/4](#)[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KIMC](#) | [Draw Desc](#) | [Image](#)☐ 3. Document ID: US 6406855 B1

L2: Entry 3 of 12

File: USPT

US-PAT-NO: 6406855

DOCUMENT-IDENTIFIER: US 6406855 B1

TITLE: Methods and compositions for polypeptide engineering

DATE-ISSUED: June 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Patten; Phillip A.	Mountain View	CA		
Stemmer; Willem P. C.	Los Gatos	CA		

US-CL-CURRENT: 435/6; 424/85.2, 424/85.4, 435/196, 435/440, 435/69.1, 435/69.51,
435/69.52, 435/91.1, 436/501, 530/350, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 4. Document ID: US 6399861 B1

L2: Entry 4 of 12

File: USPT

US-PAT-NO: 6399861

DOCUMENT-IDENTIFIER: US 6399861 B1

TITLE: Methods and compositions for the production of stably transformed, fertile monocot plants and cells thereof

DATE-ISSUED: June 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anderson; Paul C.	Stonington	CT		
Flick; Christopher E.	Old Saybrook	CT		
Gordon-Kamm; William J.	Stonington	CT		
Kausch; Albert P.	Stonington	CT		
Mackey; Catherine J.	Old Lyme	CT		
Orozco; Emil M.	Groton	CT		
Orr; Peter	Pawcatuck	CT		
Stephens; Michael A.	East Lyme	CT		
Walters; David A.	Groton	CT		
Walters; Donald S.	Mystic	CT		

US-CL-CURRENT: 800/320.1; 800/275, 800/288, 800/293, 800/301, 800/302, 800/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 5. Document ID: US 6329574 B1

L2: Entry 5 of 12

File: USPT

US-PAT-NO: 6329574

DOCUMENT-IDENTIFIER: US 6329574 B1

TITLE: High lysine fertile transgenic corn plants

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lundquist; Ronald C.	Minnetonka	MN		
Walters; David A.	Groton	CT		
Kirihara; Julie A.	Bloomington	MN		

US-CL-CURRENT: 800/300.1; 800/278, 800/287, 800/288, 800/293, 800/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 6. Document ID: US 6025545 A

L2: Entry 6 of 12

File: USPT

US-PAT-NO: 6025545

DOCUMENT-IDENTIFIER: US 6025545 A

TITLE: Methods and compositions for the production of stably transformed, fertile monocot plants and cells thereof

DATE-ISSUED: February 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lundquist; Ronald C.	Minnetonka	MN		
Walters; David A.	Groton	CT		
Spencer; T. Michael	Mystic	CT		
Mackey; Catherine J.	Old Lyme	CT		

US-CL-CURRENT: 800/300.1; 536/23.1, 536/24.1, 800/298, 800/300, 800/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 7. Document ID: US 5990390 A

L2: Entry 7 of 12

File: USPT

US-PAT-NO: 5990390

DOCUMENT-IDENTIFIER: US 5990390 A

TITLE: Methods and compositions for the production of stably transformed, fertile monocot plants and cells thereof

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lundquist; Ronald C.	Minnetonka	MN		
Walters; David A.	Groton	CT		
Kirihara; Julie A.	Bloomington	MN		

US-CL-CURRENT: 800/302; 536/23.71, 800/265, 800/268, 800/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 8. Document ID: US 5932225 A

L2: Entry 8 of 12

File: USPT

US-PAT-NO: 5932225

DOCUMENT-IDENTIFIER: US 5932225 A

TITLE: Vaccine comprising eimeria spp. gametocyte antigen

DATE-ISSUED: August 3, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wallach; Michael	Jerusalem			IL
Pugatsch; Thea	Maaleh Adumin			IL
Mencher; David	Jerusalem			IL

US-CL-CURRENT: 424/267.1; 424/184.1, 424/185.1, 424/191.1, 424/271.1, 424/276.1,
435/69.1, 435/69.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 9. Document ID: US 5716834 A

L2: Entry 9 of 12

File: USPT

US-PAT-NO: 5716834

DOCUMENT-IDENTIFIER: US 5716834 A

TITLE: Cloned factor C cDNA of the Singapore horseshoe crab, Carinoscorpius rotundicauda and purification of factor C proenzyme

DATE-ISSUED: February 10, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ding; Jeak Ling	Singapore			SG
Ho; Bow	Singapore			SG

US-CL-CURRENT: 435/219; 435/252.33, 435/254.11, 435/320.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 10. Document ID: US 5712144 A

L2: Entry 10 of 12

File: USPT

US-PAT-NO: 5712144

DOCUMENT-IDENTIFIER: US 5712144 A

TITLE: Cloned factor C cDNA of the Singapore Horseshoe Crab, Carinoscorpius rotundicauda and purification of Factor C proenzyme

DATE-ISSUED: January 27, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ding; Jeak Ling	Singapore			SG
Ho; Bow	Singapore			SG

US-CL-CURRENT: 435/219; 424/522, 424/94.63, 424/94.64, 435/226

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 11. Document ID: US 5496550 A

L2: Entry 11 of 12

File: USPT

US-PAT-NO: 5496550

DOCUMENT-IDENTIFIER: US 5496550 A

TITLE: Method of reducing the output of Eimeria oocysts from a newborn chick

DATE-ISSUED: March 5, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wallach; Michael	Jerusalem			IL
Pugatsch; Thea	Maaleh Adumin			IL
Mencher; David	Jerusalem			IL

US-CL-CURRENT: 424/184.1; 424/267.1, 424/271.1, 424/276.1, 435/69.1, 435/69.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 12. Document ID: US 5118792 A

L2: Entry 12 of 12

File: USPT

US-PAT-NO: 5118792

DOCUMENT-IDENTIFIER: US 5118792 A

TITLE: Ice crystal growth suppression polypeptides and method of making

DATE-ISSUED: June 2, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Warren; Gareth J.	San Francisco	CA		
Mueller; Gunhild M.	San Francisco	CA		
McKown; Robert L.	Albany	CA		

US-CL-CURRENT: 530/350; 426/321, 426/656, 426/657, 435/69.1, 435/69.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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Term	Documents
ANTIFREEZE.DWPI,TDBD,EPAB,USPT,PGPB.	6021
ANTIFREEZES.DWPI,TDBD,EPAB,USPT,PGPB.	469
PROTEIN.DWPI,TDBD,EPAB,USPT,PGPB.	221056
PROTEINS.DWPI,TDBD,EPAB,USPT,PGPB.	140121
GLYCOSYLATION.DWPI,TDBD,EPAB,USPT,PGPB.	13105
GLYCOSYLATIONS.DWPI,TDBD,EPAB,USPT,PGPB.	602
((ANTIFREEZE ADJ PROTEIN) AND GLYCOSYLATION).USPT,PGPB,EPAB,DWPI,TDBD.	12
(ANTIFREEZE ADJ PROTEIN AND GLYCOSYLATION).USPT,PGPB,EPAB,DWPI,TDBD.	12

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